RH PETERSON CO.

realfyre
PREMIUM GAS LOGS

INSTALLATION & OWNER'S MANUAL

Direct Vent Inserts:

D1-25 Series
D1-30 Series
D1-36 Series

DESIGN CERTIFIED
to
Vented Gas Fireplace Heater
ANSI Z21.88-2009
CSA 2.33-2009

D1 DIRECT VENT INSERTS

WARNING

If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, personal injury, or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

- **Open a window.**
- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in the building.**
- **Immediately call the gas supplier from a neighbor's phone. Follow gas supplier's instructions.**
- **If you cannot reach the gas supplier, call the fire department.**

Installation and service must be performed by a qualified professional installer, service agency, or the gas supplier.

⚠ WARNING

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION OR USE.

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

INSTALLER:
Leave this manual with the appliance.
CONSUMER:
Retain this manual for future reference.

PFS® C US
12-051

Robert H. Peterson Co. • 14724 East Proctor Avenue • City of Industry, CA 91746

RH PETERSON CO.

realfyre
PREMIUM GAS LOGS

INSTALLATION ET MODE D'EMPLOI

Direct Vent Inserts:
D1-25 Série
D1-30 Série
D1-36 Série

CONCEPTION CERTIFIÉE
à
Réchauffeur exhalé de cheminée de gaz
ANSI Z21.88-2009
CSA 2.33-2009

D1 INSERTS À ÉVACUATION DIRECTE

AVERTISSEMENT
Si l'information en ce manuel n'est pas suivie exactement, une incendie ou une explosion peut résulter, entraînant des dégats matériels, des blessures, ou la perte de la vie.

Ne stockez pas ou n'employez pas l'essence ou d'autres vapeurs et liquides inflammables à proximité de ceci ou d'aucun autre appareil.

CE QUI À FAIRE SI VOUS SENTEZ LE GAZ:

- **Ouvrez une fenêtre.**
- **N'essayez pas de n'allumer aucun appareil.**
- **Ne touchez aucun commutateur électrique; n'utilisez aucun téléphone dans le bâtiment.**
- **Appelez immédiatement le fournisseur de gaz du téléphone du voisin. Suivez les instructions du fournisseur de gaz.**
- **Si vous ne pouvez pas atteindre le fournisseur de gaz, appelez le département de feu.**

L'installation et le service doivent être assurés par un installateur qualifié et professionnel, l'agence de service, ou le fournisseur de gaz.

⚠ AVERTISSEMENT

UNA SURFACE VITRÉE CHAUDE PEUT CAUSER DES BRÛLURES.

LAISSER REFROIDIR LA SURFACE VITRÉE AVANT D'Y TOUCHER.
NE PERMETTEZ JAMAIS À UN ENFANT DE TOUCHER LA SURFACE VITRÉE.

IMPORTANT: LISEZ CES INSTRUCTIONS SOIGNEUSEMENT AVANT DE COMMENCER L'INSTALLATION OU L'UTILISATION.

Cet appareil peut être installé dans un marché des accessoires, une maison de manière permanente située et manufacturée (Etats-Unis seulement) ou une caravane résidentielle, où non interdit par des codes locaux.

Cet appareil sert seulement avec le type de gaz indiqué de la plaque de contrôle. Cet appareil n'est pas convertible pour l'usage avec d'autres gaz, à moins qu'un kit certifié soit employé.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

INSTALLATEUR :
Laissez ce manuel avec l'appareil.
CONSOMMATEUR:
Maintenez ce manuel pour la future référence.

PFS® C US
12-051

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IMPORTANT SAFETY INFORMATION

Congratulations on your purchase of an R. H. Peterson Co. Real Fyre direct vent insert. Made with pride in America, your new insert complies with national safety standards and when installed per these instructions and used as intended it will provide warmth and comfort to your home for many years.

Due to the extreme heat output of the insert, there is a risk of burns if care is not taken in the operation of the unit. PLEASE READ THE SAFETY AND OPERATON INFORMATION AND WARNINGS IN THIS MANUAL BEFORE USING YOUR INSERT. Be aware that glass panels and other surfaces get extremely HOT and can cause burns if touched. Factory-provided barrier screens help to reduce the risk of serious burns as they can prevent direct contact with the glass. However, barrier screens still retain heat and must not be touched. The insert glass and surrounding material will remain HOT for a period of time after the unit is turned off, so caution should be used at all times.

Refer to all safety information and warnings provided in this manual.

L'INFORMATION IMPORTANTE DE PRÉINSTALLATION ET DE SÛRETÉ

AVERTISSEMENT!

A. **Lisez toutes les instructions. Ne pas installer ou utiliser cet appareil sans avoir lu et compris ce manuel. Ne pas suivre les instructions de ce manuel annulera la garantie et peut être dangereuse.**

B. **Le non respect de ces instructions d'installation se traduira par un appareil mal installé et fonctionne, ce qui annulera sa garantie. Toute modification apportée à cet appareil et / ou de ses contrôles de fonctionnement est dangereux.**

C. **Instructions à la terre électrique - Cet appareil est équipé d'un à trois broches (mise à la terre) pour vous protéger contre les chocs électriques et doit être branchée directement dans une prise à trois broches prise. Ne pas couper ou enlever la broche de terre de cette fiche.**

D. **Ne pas placer les pièces conformément à ce manuel ou de l'échec d'utiliser seulement les pièces approuvées pour cet appareil peut entraîner des dommages matériels ou des blessures corporelles.**

E. **Installation, maintenance et de réparation doit être effectuée par un technicien de service professionnel qualifié.**

F. **Un inspecteur en bâtiment local devriez revoir vos plans avant l'installation.**

G. **Une mauvaise installation, de réglage, la modification, un service ou d'entretien peut causer des blessures ou des dommages matériels. Reportez-vous à ce manuel. Pour de l'aide ou des renseignements supplémentaires, consultez un installateur qualifié, une agence de service ou le fournisseur de gaz.**

H. **Une mauvaise installation ou l'utilisation de cet appareil peut causer des blessures graves ou la mort du feu, des brûlures, une explosion ou intoxication au monoxyde de carbone.**

I. **Soyez extrêmement prudent lors de la manipulation de ce produit et ses accessoires car ils ont des bords tranchants qui peuvent causer des blessures.**

J. **Il est recommandé que les détecteurs de fumée sont installés dans la maison. Si possible, installez un détecteur dans un couloir adjacent à la salle (pour éviter une fausse alarme de la chaleur de l'appareil). Cependant, vous devez suivre les exigences du code local.**

K. **Toute modification ou altération peut annuler la garantie, la certification et les annonces de cet appareil.**

L. **Dispositions pour la combustion adéquate et l'air de ventilation doit être maintenue.**

M. **Dégagements d'accessibilité adéquats pour l'entretien et doit être prévu.**

N. **Un dégagement suffisant autour des ouvertures d'air dans la chambre de combustion doit être maintenue.**

O. **Un appareil au gaz ne doit pas être raccordé à un conduit de cheminée desservant un autre appareil de combustion séparée à combustible solide.**

P. **Ne pas utiliser cet appareil si une pièce a été sous l'eau. Appelez immédiatement un technicien de service qualifié pour inspecter l'appareil et pour remplacer toute pièce du système de contrôle et de contrôle du gaz qui a été sous l'eau.**

Q. **En raison des températures élevées, l'appareil doit être placé hors de la circulation et loin des meubles et des rideaux.**

R. **Hot en cours de fonctionnement. Enfants et adultes doivent être avertis des dangers de la température de surface élevée et devrait rester à l'écart pour éviter les brûlures ou l'inflammation des vêtements.**

S. **Les jeunes enfants doivent être surveillés quand ils sont dans la même pièce que l'appareil. Tout-petits, les jeunes enfants et d'autres peuvent être sensibles à des brûlures de contact accidentel. Une barrière physique est recommandé s'il ya des individus à risque dans la maison. Pour restreindre l'accès à une cheminée ou un poêle, installer une barrière de sécurité pour garder les tout-petits, les jeunes enfants et d'autres personnes à risque hors de la salle et à l'écart des surfaces chaudes.**

T. **Les vêtements ou autres matériaux inflammables ne doivent pas être placés sur ou près de l'appareil. Ne placez jamais les combustibles solides, liquides inflammables, ou des objets étrangers dans cet appareil.**

U. **Tout écran ou grille de protection pour l'entretien d'un appareil doit être remplacé avant de faire fonctionner l'appareil.**

V. **Installation et réparation doit être effectuée par un technicien qualifié. L'appareil doit être inspecté avant son utilisation et au moins annuellement par une personne un service professionnel. Un nettoyage plus fréquent peut être nécessaire en raison des peluches provenant des tapis, literie, etc. Il est impératif que les compartiments de contrôle, les brûleurs et les passages de circulation d'air de l'appareil être maintenu propre.**

W. **Seulement trousse de garniture (s) fournie par le fabricant doivent être utilisées dans l'installation de cet appareil. Ouvertures de secours projets ne doivent pas être couverts ou bloqués. Panneaux de garniture ou entoure ne doit pas sceller les ouvertures de ventilation dans la cheminée.**

CONSERVER CES INSTRUCTIONS

IMPORTANT PRE-INSTALLATION AND SAFETY INFORMATION

WARNING!

A. Read all instructions. Do not install or operate this appliance without first reading and understanding this manual. Failure to follow the instructions in this manual will void the warranty and may be dangerous.

B. Failure to follow these installation instructions will result in an improperly installed and operating appliance, voiding its warranty. Any change to this appliance and/or its operating controls is dangerous.

C. Electrical Grounding Instructions - This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

D. Failure to position the parts in accordance with this manual or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

E. Installation, service, and repair must be done by a qualified professional service technician.

F. A local building inspector should review your plans prior to installation.

G. Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

H. Incorrect installation or use of this appliance can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.

I. Use extreme caution whenever handling this product and its accessories as they have sharp edges that can cause personal injury.

J. It is recommended that smoke detectors are installed in the home. If possible, install a detector in a hallway adjacent to the room (to prevent a false alarm from the heat of the appliance). However, you must follow the requirements of the local code.

K. Any modification or alteration may void the warranty, certification and listings of this appliance.

L. Provisions for adequate combustion and ventilation air must be maintained.

M. Adequate accessibility clearances for servicing and proper operation must be provided.

N. Adequate clearance around air openings into the combustion chamber must be maintained.

O. A gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

P. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Q. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

R. Hot while in operation. Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.

S. Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.

T. Clothing or other flammable material should not be placed on or near the appliance. Never place solid fuels, flammable liquids, or foreign objects into this appliance.

U. Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.

V. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

W. Only trim kit(s) supplied by the manufacturer shall be used in the installation of this appliance. Draft relief openings must not be covered or blocked. Trim panels or surrounds must not seal ventilation openings in the fireplace.

SAVE THESE INSTRUCTIONS

LISTING AND CODE APPROVALS

LISTING

This direct vent insert has been certified to:

VENTED GAS FIREPLACE HEATER ANSI Z21.88-2009, CSA 2.33-2009

It has been certified for use with either natural or propane gas, and is approved for installation in bedrooms and aftermarket manufactured (mobile) homes.

CODE REQUIREMENTS

A. The installation must conform with local codes or, in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1/NFPA 54,* or the *Natural Gas and Propane Installation Code, CSA B149.1.*

B. Ensure clearances are in accordance with local installation codes and the requirements of the gas supplier.

Dégagement conforme aux codes d'installation locaux et aux exigences du foumisseunde gaz.

C. A manufactured home (USA only) or mobile home OEM installation must conform with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280,* or, when such a standard is not applicable, the *Standard for Manufactured Home Installations, ANSI/NCSBCS A225.1,* or Standard for *Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4.*

D. The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70,* or the *Canadian Electrical Code, CSA C22.1.*

E. To comply with certification, and building code acceptances, and for safe operation and proper performance of this appliance, use ONLY Peterson parts and accessories. Use of other controls, parts, and accessories that are not designed for use with Real Fyre direct vent inserts is prohibited and will void all warranties, certifications, and building code approvals, and may cause property damage, personal injury, or loss of life.

COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS

This appliance is approved for installation in the state of Massachusetts subject to the following requirements:

A. Install this appliance in accordance with 248 C.M.R., the Rules and Regulations Governing Plumbers and Gas Fitters.

B. The installer or service agent must be a plumber or gas fitter licensed in the Commonwealth of Massachusetts.

C. The flexible gas line connector used must not exceed 36 inches (92 centimeters) in length.

D. The individual manual shut-off must be a T-handle type valve, listed and approved by the state of Massachusetts.

SPECIFICATIONS AND DIMENSIONS

Description		Dimension		
		D1-25	D1-30	D1-36
A.	Rear Width	17"	17 3/8"	19 5/8"
B.	Front Width	29"	31 1/2"	34 1/2"
C.	Unit Depth	13 1/4"	16 1/4"	17 1/4"
D.	Vent Depth	6 1/2"	9 1/2"	9 1/2"
E.	Rear Height	15 1/2"	18 1/8"	21 3/8"
F.	Front Height	18 1/2"	21 1/2"	25"

Table 1 - Product Dimensions

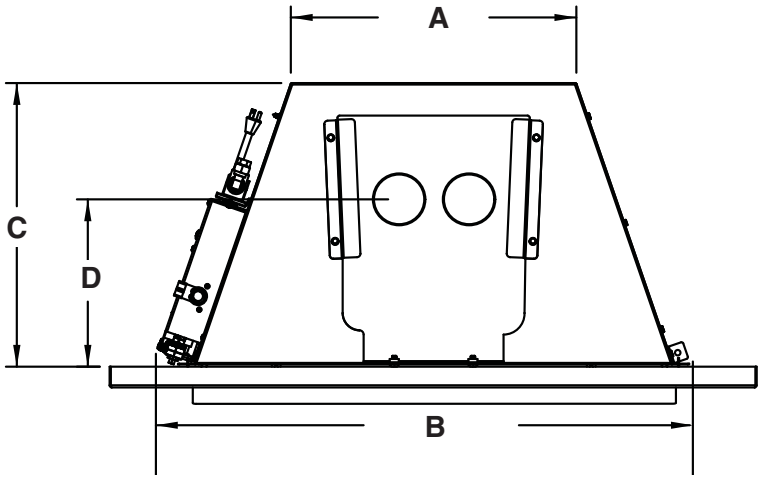


Fig. 7-1 Top View

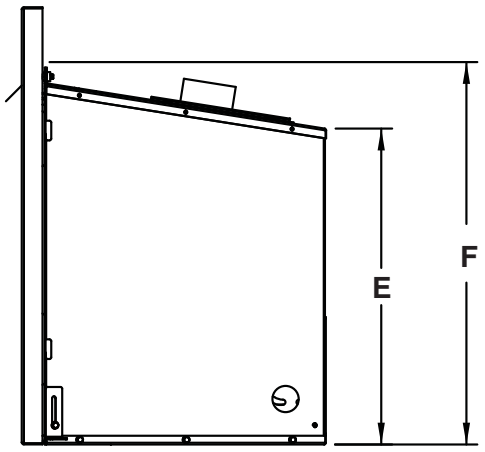


Fig. 7-2 Side View

Description	A	B	C	D	E
D1-25					
Surround 3-sided, small	34 3/8"	22"	4 1/2"	4 3/4"	1 1/2"
Surround 3-sided, medium	37 3/8"	25 1/4"	7 3/4"	6 1/4"	1 1/2"
Surround 3-sided, large	40 3/8"	28"	10 1/2"	7 3/4"	1 1/2"
Surround 4-sided, small	34 3/8"	27"	4 3/4"	4 3/4"	1 1/2"
Surround 4-sided, medium	37 3/8"	30"	6 1/4"	6 1/4"	1 1/2"
D1-30					
Surround 3-sided, small	38 3/8"	25"	4 3/4"	4 1/2"	1 1/2"
Surround 3-sided, medium	41 3/8"	28"	6 1/4"	7 1/2"	1 1/2"
Surround 3-sided, large	44 3/8"	31"	7 3/4"	10 1/2"	1 1/2"
Surround 4-sided, small	38 3/8"	30"	4 3/4"	4 3/4"	1 1/2"
Surround 4-sided, medium	41 3/8"	33"	6 1/4"	6 1/4"	1 1/2"
D1-36					
Surround 3-sided, small	43 3/8"	29"	5"	5 3/4"	1 1/2"
Surround 3-sided, medium	45 3/8"	32"	8"	6 3/4"	1 1/2"
Surround 3-sided, large	49 3/8"	35"	11"	8 3/4"	1 1/2"
Surround 4-sided, small	43 3/8"	33"	4 1/2"	5 3/4"	1 1/2"
Surround 4-sided, medium	45 3/8"	36"	6"	6 3/4"	1 1/2"

Table 2 - Surround Kit Dimensions

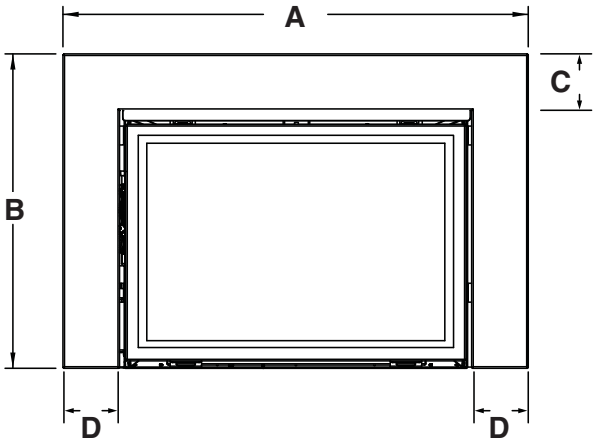


Fig. 8-1 Front View (3 sided surround model)

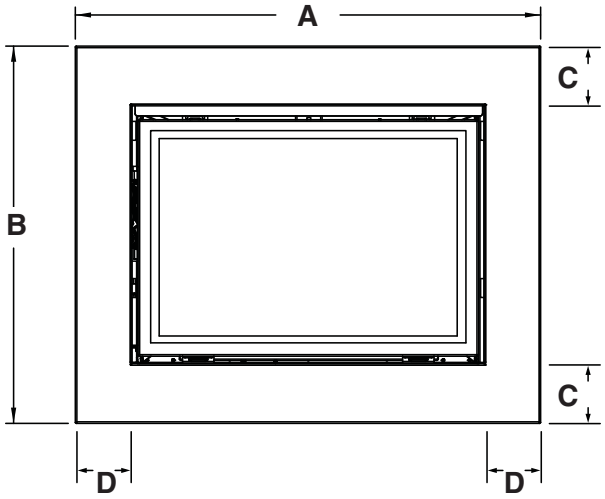


Fig. 8-2 Front View (4 sided surround model)

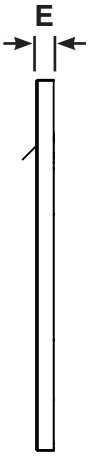


Fig. 8-3 Side View

TO DETERMINE THE APPROPRIATE SURROUND FOR YOUR SETUP* :

Recommended surround	F max	G max
D1-25		
Surround 3-sided, small	32 3/8"	21"
Surround 3-sided, medium	35 3/8"	24 1/4"
Surround 3-sided, large	38 3/8"	27"
Surround 4-sided, small	32 3/8"	19 3/4"
Surround 4-sided, medium	35 3/8"	24 1/4"
D1-30		
Surround 3-sided, small	36 3/8"	24"
Surround 3-sided, medium	39 3/8"	27"
Surround 3-sided, large	42 3/8"	30"
Surround 4-sided, small	36 3/8"	24 1/4"
Surround 4-sided, medium	39 3/8"	25 3/4"
D1-36		
Surround 3-sided, small	41 3/8"	28"
Surround 3-sided, medium	43 3/8"	31"
Surround 3-sided, large	47 3/8"	34"
Surround 4-sided, small	41 3/8"	27 1/2"
Surround 4-sided, medium	43 3/8"	29"

Table 3 - Recommended Surround (based upon fireplace opening, see Fig. 9-1)

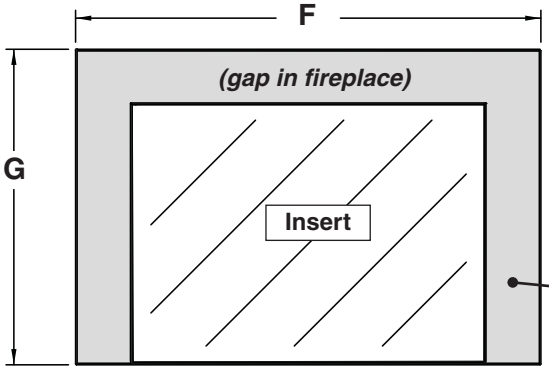


Fig. 9-1 Insert in Fireplace Opening

* To complete your insert installation, a matching metal surround is required to cover the gap between the insert and your existing fireplace opening. Available in a black finish, choose from three fixed, non-adjustable 3-sided sizes. If your fireplace opening is raised and flush with the wall; you may choose from two fixed dimension 4-sided surrounds. Consult Table 3 for assistance.

- **F x G represents fireplace opening**
- **Shaded area represents gap created**
- **Surround is designed to overlay fireplace opening a minimum of 1"**

Description		Dimension		
		D1-25	D1-30	D1-36
A.	Front Width	30"	34"	37"
B.	Rear Width	20"	20 1/2"	22 1/2"
C.	Depth	15"	18 1/2"	19 1/2"
D.	Height	19"	22"	25 1/2"

Table 4 - Minimum Fireplace Dimensions

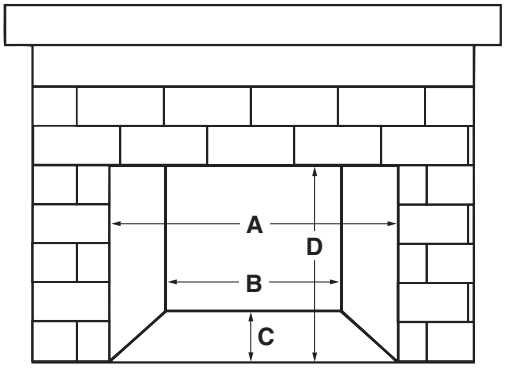


Fig. 10-1 Minimum Fireplace Dimensions

Model		Natural Gas			Propane Gas		
		BTU Rating	Orifice Size		BTU Rating	Orifice Size	
			Front	Rear		Front	Rear
D1-25	(0-2000 FT) *	25,000	#42	-	20,000	#55	-
D1-30	(0-2000 FT) *	32,000	#50	#45	31,000	#57	#55
D1-36	(0-2000 FT) *	38,000	#48	#43	36,000	#57	#54

Table 5 - BTU Ratings and Orifice Sizes

* For elevations above 2,000 feet, the BTU rate of the unit is reduced by 4% for each additional 1,000 feet. To install the unit above an elevation of 2,000 feet, you must use proper orifices based on the de-rated BTU.

Remote Control	
Supply voltage	4.5 V (three 1.5 V AAA batteries)
Ambient temperature ratings	32 - 122 °F (0-50 °C)
Radio frequency	315 MHz
Receiver	
Supply voltage	6.0 V (four 1.5 V AA batteries)
Ambient temperature ratings	32 - 140 °F (0-60 °C)
Radio frequency	315 MHz
Fan Control Module	
Supply voltage/frequency	120 V / 60 Hz
Ambient temperature ratings	32 - 140 °F (0-60 °C)
Output voltage/frequency/current	120 V / 60 Hz / 5 A
Aux switched output	120 V / 60 Hz / 2 A
Fan speed output	120 V / 60 Hz / 1 A

Table 6 - Technical Data Specifications

D1-25 WIRING DIAGRAM

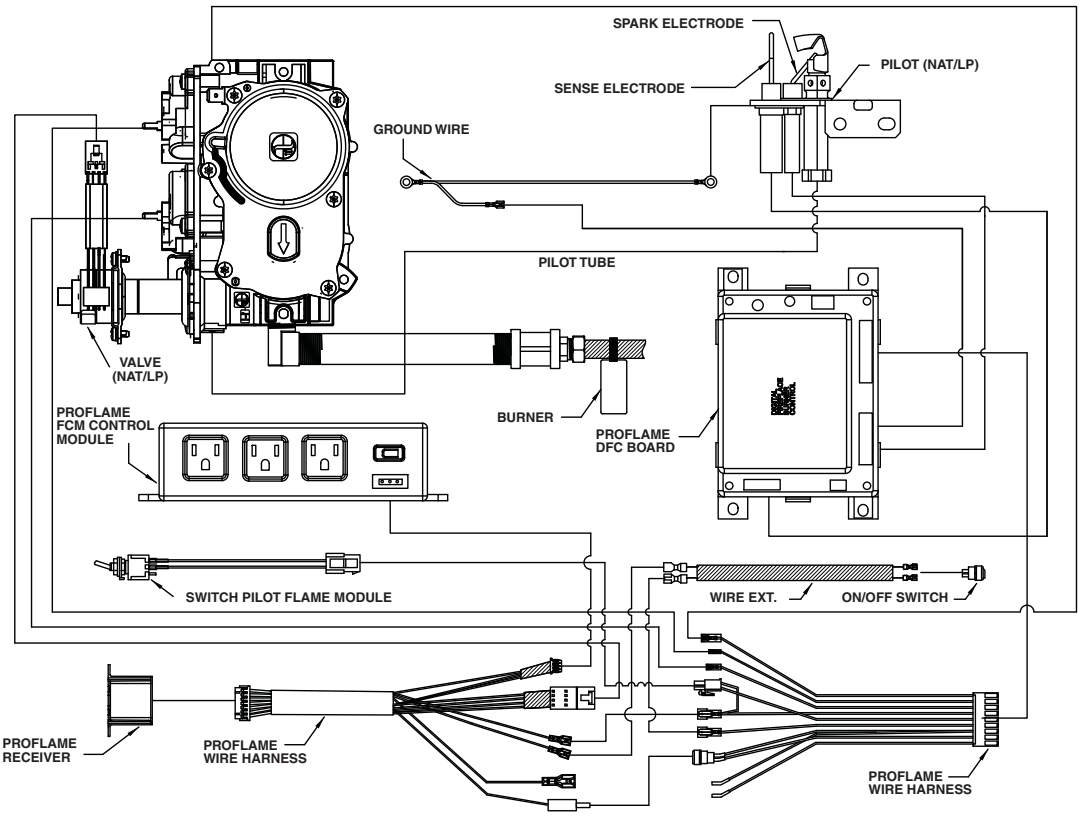


Fig. 11-1

D1-30 & D1-36 WIRING DIAGRAM

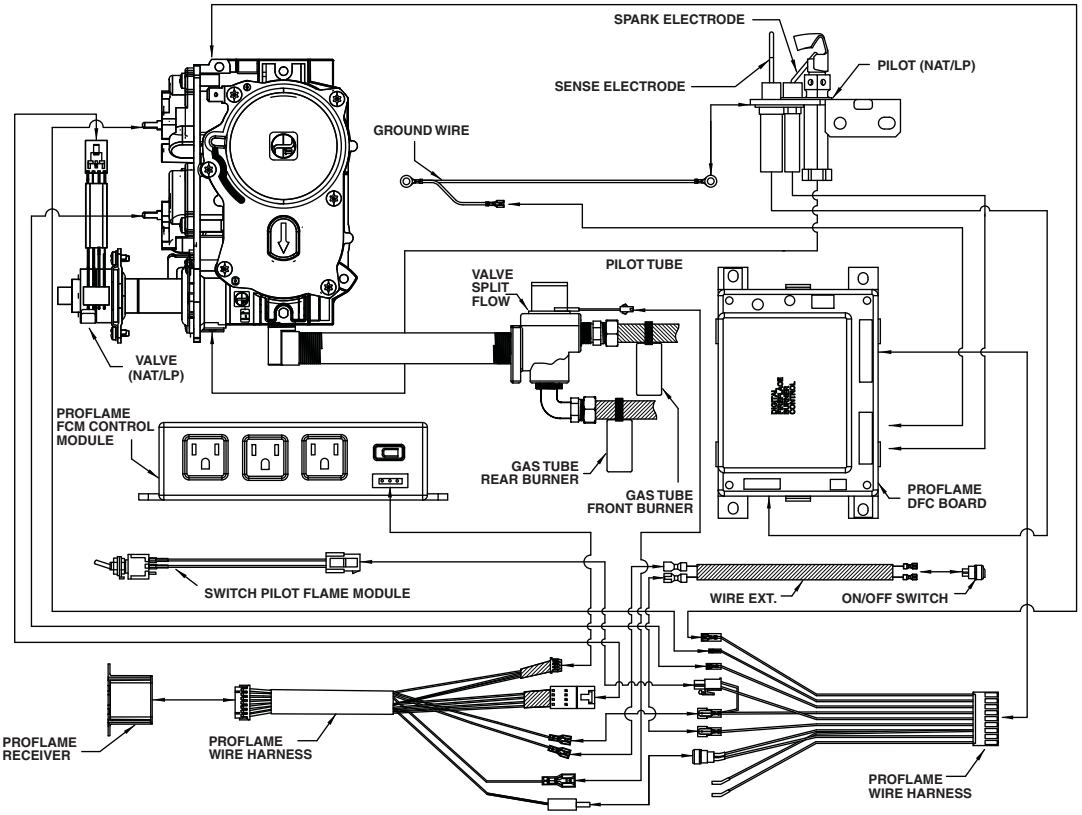


Fig. 11-2

MINIMUM CLEARANCES TO COMBUSTIBLES

All minimum clearances from surfaces to combustible construction must be met, and maintained at all times. The clearances shown below include any adjacent walls, spacers, standoffs, and any projections such as shelves, window sills, or fireplace mantels. Any finishing on the mantel must be heat resistant.

Description	Dimension		
	D1-25	D1-30	D1-36
A. Clearance needed from bottom of insert to combustibles or 8" mantel	31"	36"	40"
B. Clearance required from center of glass to combustibles	22 1/2"	22 1/2"	22 1/2"
C. Clearance needed from bottom of insert to 12" mantel	37"	42"	46"

Table 7 - Minimum Clearances to Combustibles

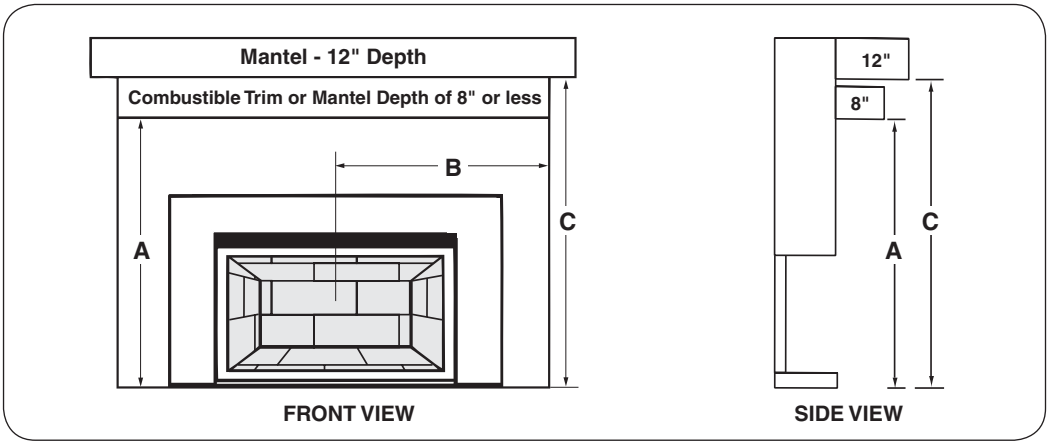


Fig. 12-1 Minimum Clearances

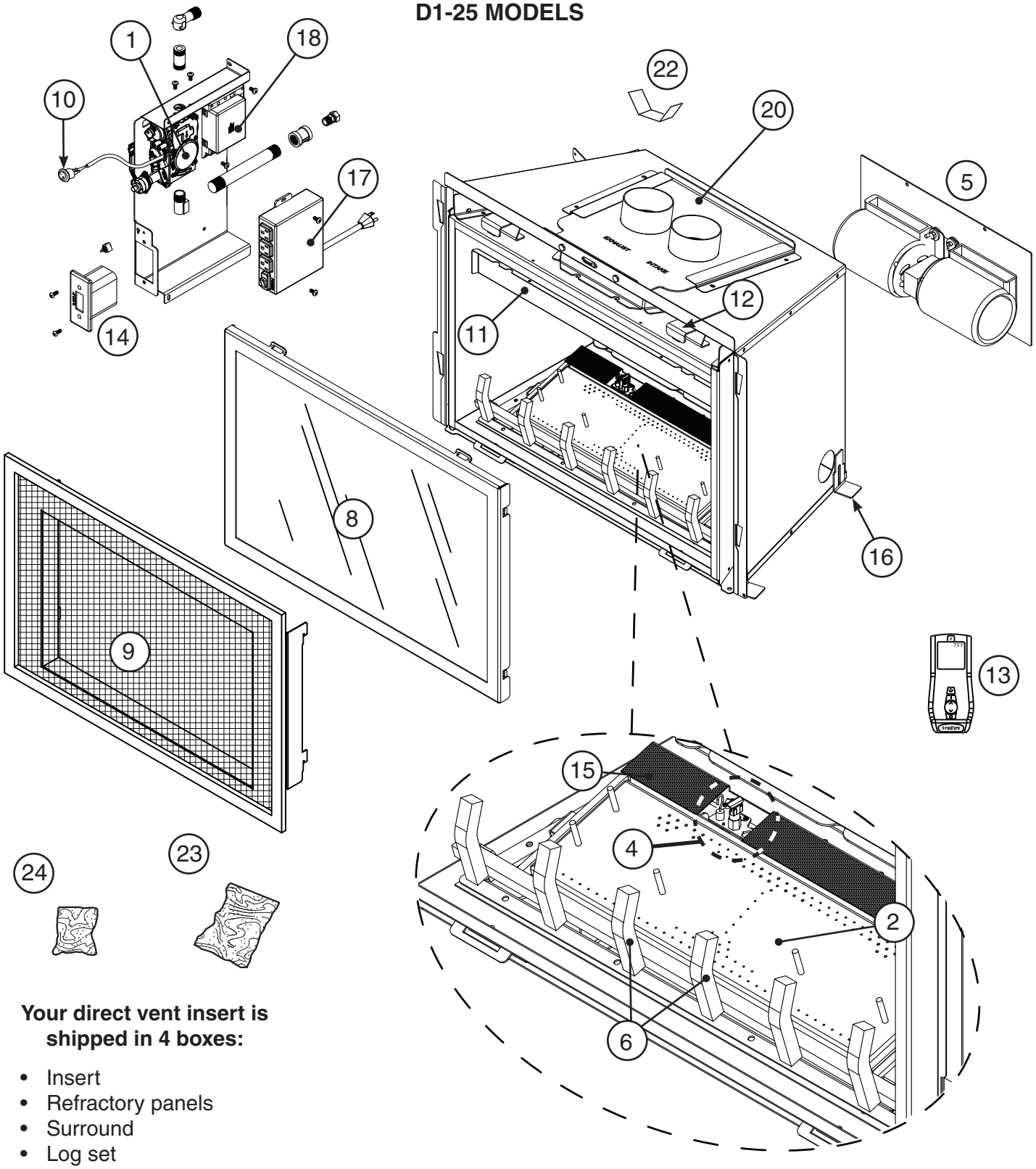
TOOLS REQUIRED

The following are the minimum tools required for the installation of your direct vent insert. Additional tools may be required for your individual installation.

- 2 man crew recommended
- rope
- measuring tape
- marker
- appropriate tools for gas supply and electrical install
- reciprocating saw
- hi temp. sealant
- cordless drill
- drill bits and drivers
- Phillips screwdriver
- 5/16" & 7/16" nut drivers
- utility knife
- tin snip / hacksaw

REPLACEMENT PARTS LIST

D1-25 MODELS



Your direct vent insert is shipped in 4 boxes:

- Insert
- Refractory panels
- Surround
- Log set

Replacement parts can be ordered from your local Real Fyre dealer.

IMPORTANT

Remove all packing material (including any protective coatings) and discard prior to use.

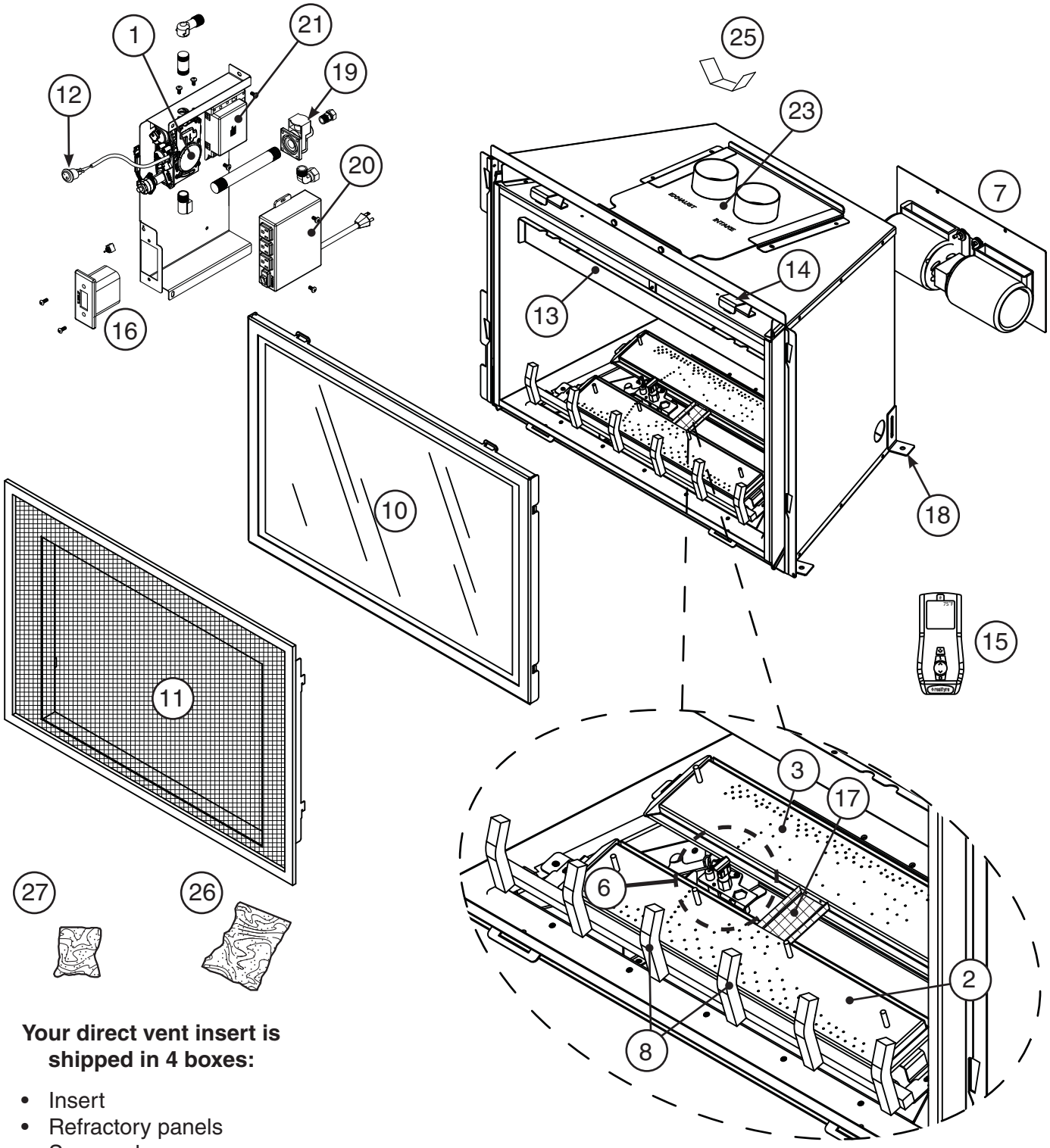
SHARP EDGES
USE CAUTION

REPLACEMENT PARTS LIST (cont.)

D1-25 MODELS			
Item	**Description**	**Part No.**	**Qty.**
1.	Control valve (Nat)	D1-30-701	1
or	Control valve (LP)	D1-30-702	1
2.	Burner assembly	D1-25-703	1
3.	Burner orifice (Nat)*	3001-42-1	1
or	Burner orifice (LP)*	3001-55-1	1
4.	Pilot assembly (Nat/LP)	D1-25-705	1
5.	Fan assembly	D1-30-706	1
6.	Grate	D1-25-707	1
7.	Light bulb assy * (120 V / 25 watt bulb & gaskets)	D1-30-708	1
8.	Glass panel assembly	D1-25-900	1
9.	Fine mesh barrier screen	D1-25-913F	1
10.	On/Off switch	SW-9	1
11.	Lintel	D1-25-902	1
12.	Spring door latch	D1-30-910	1
13.	Remote transmitter	D1-30-709	1
14.	Remote receiver kit	D1-30-711	1
15.	Air flow screen	D1-25-710	1
16.	Support leg (set of 4)	D1-30-911	1
17.	Fan control module	D1-30-713	1
18.	DFC board	D1-30-714	1
19.	Wire harness kit*	D1-30-715	1
20.	Vent adapter plate	D1-25-912	1
21.	Wire hook*	D1-30-717	1
22.	Air restrictor	D1-25-916	1
23.	Glowing embers	EM-10	1
24.	Bryte coals	EMV-1	1

* Not shown

D1-30 & D1-36 MODELS



Your direct vent insert is shipped in 4 boxes:

- Insert
- Refractory panels
- Surround
- Log set

Replacement parts can be ordered from your local Real Fyre dealer.

D1-30 model shown

IMPORTANT

Remove all packing material (including any protective coatings) and discard prior to use.

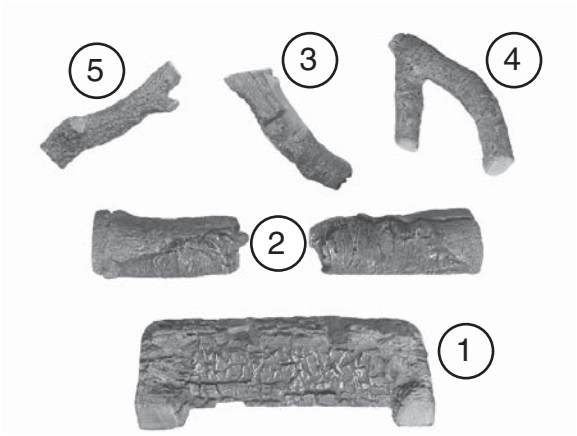
SHARP EDGES
USE CAUTION

REPLACEMENT PARTS LIST (cont.)

Item	Description	D1-30 Part No.	D1-30 Qty.	D1-36 Part No.	D1-36 Qty.
1.	Control valve (Nat)	D1-30-701	1	D1-30-701	1
or	Control valve (LP)	D1-30-702	1	D1-30-702	1
2.	Front burner assembly	D1-30-703	1	D1-36-703	1
3.	Rear burner assembly	D1-30-704	1	D1-36-704	1
4.	Front burner orifice (Nat)*	3001-50-1	1	3001-48-1	1
or	Front burner orifice (LP)*	3001-57-1	1	3001-57-1	1
5.	Rear burner orifice (Nat)*	3001-45-1	1	3001-43-1	1
or	Rear burner orifice (LP)*	3001-55-1	1	3001-54-1	1
6.	Pilot assembly (Nat/LP)	D1-30-705	1	D1-30-705	1
7.	Fan assembly	D1-30-706	1	D1-30-706	1
8.	Grate	D1-30-707	1	D1-36-707	1
9.	Light bulb assy * (120 V / 25 watt bulb & gaskets)	D1-30-708	1	D1-30-708	1
10.	Glass panel assembly	D1-30-900	1	D1-36-900	1
11.	Fine mesh barrier screen	D1-30-913F	1	D1-36-913F	1
12.	On/Off switch	SW-9	1	SW-9	1
13.	Lintel	D1-30-902	1	D1-36-902	1
14.	Spring door latch	D1-30-910	1	D1-30-910	1
15.	Remote transmitter	D1-30-709	1	D1-30-709	1
16.	Remote receiver kit	D1-30-711	1	D1-30-711	1
17.	Ember screen	D1-30-710	1	D1-30-710	1
18.	Support leg (set of 4)	D1-30-911	1	D1-30-911	1
19.	Valve split flow	D1-30-712	1	D1-30-712	1
20.	Fan control module	D1-30-713	1	D1-30-713	1
21.	DFC board	D1-30-714	1	D1-30-714	1
22.	Wire harness kit*	D1-30-715	1	D1-30-715	1
23.	Vent adapter plate	D1-30-912	1	D1-30-912	1
24.	Wire hook*	D1-30-717	1	D1-30-717	1
25.	Air restrictor	D1-25-916	1	D1-25-916	1
26.	Glowing embers	EM-10	2	EM-10	2
27.	Bryte coals	EMV-1	1	EMV-1	2

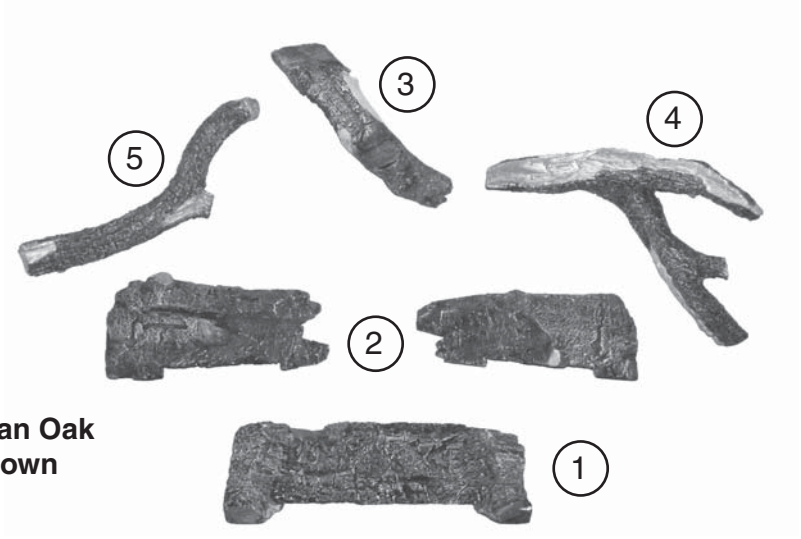
* Not shown

D1-25-2(A,S) Log Sets					
		Burnt American Oak		Burnt Split American Oak	
Item	Description	Part No.	Qty.	Part No.	Qty.
1.	Rear log	D1AL-17BR	1	D1AL-17BR	1
2.	Front logs	D1AL-10BF	1	D1SL-10BF	1
3.	Middle top log	D1AL-9TC	1	D1AL-9TC	1
4.	Right top log	D1AL-11TR	1	D1SL-11TR	1
5.	Left top log	D1AL-10TL	1	D1SL-10TL	1



Burnt American Oak Log Set Shown

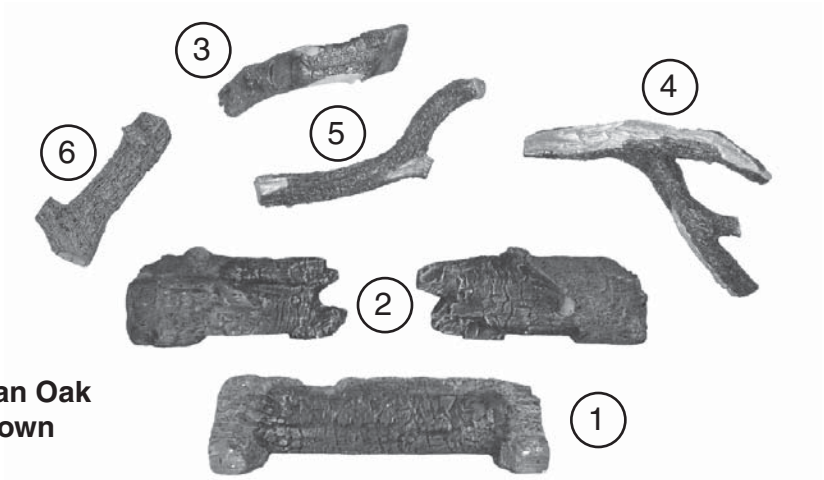
D1-30-2(A,S) Log Sets					
		Burnt American Oak		Burnt Split American Oak	
Item	Description	Part No.	Qty.	Part No.	Qty.
1.	Rear log	D1AL-18BR	1	D1SL-18BR	1
2.	Front logs	D1AL-12BF	1	D1SL-12BF	1
3.	Middle top log	D1AL-11T	1	D1SL-11T	1
4.	Right top log	D1AL-18T	1	D1SL-18T	1
5.	Left top log	D1AL-13T	1	D1SL-13T	1



Burnt American Oak Log Set Shown

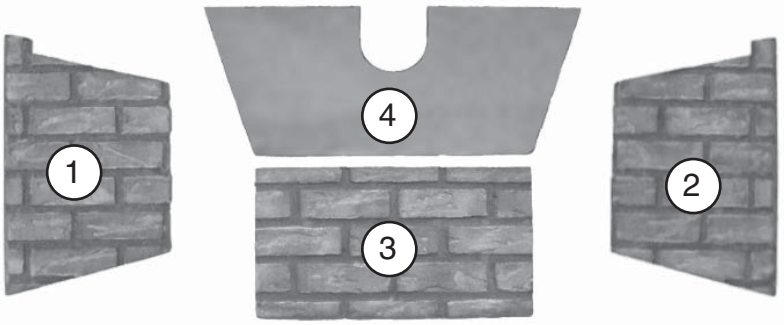
REPLACEMENT PARTS LIST (cont.)

D1-36-2(A,S) Log Sets					
		Burnt American Oak		Burnt Split American Oak	
Item	Description	Part No.	Qty.	Part No.	Qty.
1.	Rear log	D1AL-21BRL	1	D1SL-21BRL	1
2.	Front logs	D1AL-13BF	1	D1SL-13BF	1
3.	Middle log	D1AL-11T	1	D1AL-11T	1
4.	Right top log	D1AL-18T	1	D1SL-18T	1
5.	Middle top log	D1AL-13T	1	D1SL-13T	1
6.	Left top log	D1AL-10T	1	D1SL-10T	1

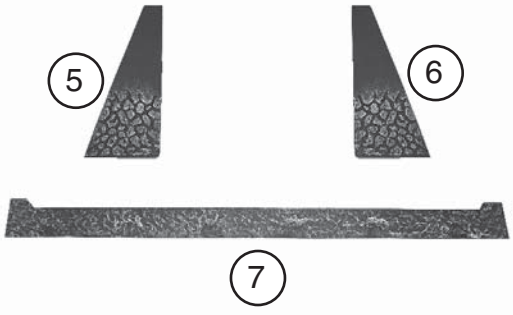


Burnt American Oak Log Set Shown

		D1-25		D1-30		D1-36	
Item	Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
1.	Left panel (Boston brick)	D1-25-800	1	D1-30-800	1	D1-36-800	1
or	Left panel (Herringbone)	D1-25-801	1	D1-30-801	1	D1-36-801	1
2.	Right panel (Boston brick)	D1-25-802	1	D1-30-802	1	D1-36-802	1
or	Right panel (Herringbone)	D1-25-803	1	D1-30-803	1	D1-36-803	1
3.	Rear panel (Boston brick)	D1-25-804	1	D1-30-804	1	D1-36-804	1
or	Rear panel (Herringbone)	D1-25-805	1	D1-30-805	1	D1-36-805	1
4.	Top panel (Boston brick)	D1-25-806	1	D1-30-806	1	D1-36-806	1
or	Top panel (Herringbone)	D1-25-807	1	D1-30-807	1	D1-36-807	1
5.	Left floor panel	D1-25-808	1	D1-30-808	1	D1-30-808	1
6.	Right floor panel	D1-25-809	1	D1-30-809	1	D1-30-809	1
7.	Front floor panel	D1-25-810	1	D1-30-810	1	D1-36-810	1

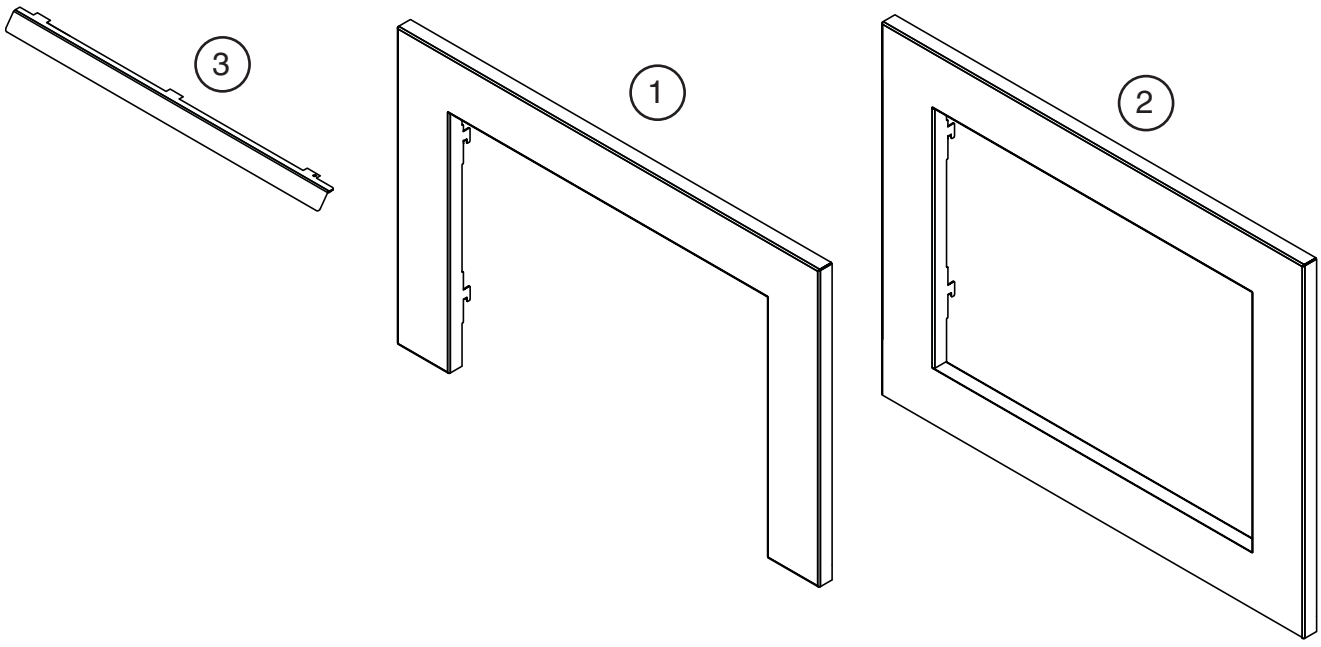


Boston brick panels shown



REPLACEMENT PARTS LIST (cont.)

Item	Description	D1-25 Part No.	D1-25 Qty.	D1-30 Part No.	D1-30 Qty.	D1-36 Part No.	D1-36 Qty.
1.	3 sided surround, small	D1-25-908	1	D1-30-908	1	D1-36-908	1
or	3 sided surround, medium	D1-25-909	1	D1-30-909	1	D1-36-909	1
or	3 sided surround, large	D1-25-905	1	D1-30-905	1	D1-36-905	1
2.	4 sided surround, small	D1-25-907	1	D1-30-907	1	D1-36-907	1
or	4 sided surround, medium	D1-25-906	1	D1-30-906	1	D1-36-906	1
3.	Eyebrow	D1-25-901	1	D1-30-901	1	D1-36-901	1



INSTALLATION REQUIREMENTS

Installation must be done by a qualified professional service technician.

Prior to installation ensure that all specifications, dimensions, and minimum clearances stated in this manual are observed. You must read all warnings and safety information, and understand all of the information in this manual. All of these installation requirements must be observed and met.

FIREPLACE REQUIREMENTS

A. This appliance must be vented directly to the outside in accordance with the current edition of the National Fuel Gas Code (NFPA 54 in U.S.A. and CAN/CSA B149.1 in Canada) and must never be attached to a chimney serving a separate solid fuel burning appliance. This appliance is designed to be installed into an existing masonry fireplace (built to UBC 37 or ULC S628 standards) or factory built solid fuel, wood, burning fireplace (listed to UL 127 or ULC S610) only. All exhaust gases must be vented outside the structure. Combustion air is drawn from outside the structure.

B. Cutting any sheet metal parts of the fireplace in which the gas fireplace insert is to be installed is prohibited, with the exception of the firebox floor. The metal firebox floor may be removed/altered to allow additional room for installation of the insert. Note: a minimum 2" clearance is required between the fireplace floor and the insert. The clearance may be provided by lowering the firebox floor, placing bricks, etc. See Fig. 20-2.

C. If the factory-built fireplace has no gas access hole(s) provided, an access hole of 1.5 in (37.5 mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed. Si le foyer préfabriqué ne comporte pas d'orifices d'amenée du gaz, un orifice d'au plus 37,5 mm (1,5 po) peut être pratiqué, selon les règles de l'art, dans la partie inférieure des parois ou au fond de la chambre de combustion. Cet orifice doit être obturé au moyen d'isolant incombustible une fois la conduite de gaz en place.

D. The fireplace flue damper must be removed for installation of the gas fireplace insert.

E. The fireplace and fireplace chimney must be completely clean. Brush and vacuum all interior surfaces so that no embers, soot, or loose combustion deposits can be drawn into the heat circulation fan and blown into the living area. The fireplace and fireplace chimney must be in good working order and constructed of non-combustible materials. Inspect chimney clean-outs for proper fit and seal. If any portion of the chimney system shows signs of structural or mechanical weaknesses, the faulty portion must be repaired or replaced prior to installing this appliance.

F. Refractory panels, glass panels, screen rails, screen mesh and log grates may be removed from the fireplace (as needed) before installing the gas fireplace insert. Smoke shelves, shields and baffles may be removed if attached by mechanical fasteners. Any parts that are removed must be retained for later reinstallation to restore the fireplace to its original operating condition. The removal of any part must not alter the integrity of the outer shell of the pre-fab fireplace cabinet in any way. If any parts are removed (or altered) from the existing fireplace, a Warning Label (see Fig. 20-1 below) must be affixed inside the fireplace firebox. The label must be visible upon removal of the direct vent insert.

WARNING

THIS FIREPLACE HAS BEEN ALTERED
TO ACCOMODATE A FIREPLACE INSERT
AND SHOULD BE INSPECTED BY A QUALIFIED PERSON
PRIOR TO RE-USE AS A CONVENTIONAL FIREPLACE.

Fig. 20-1 Fireplace Warning Label

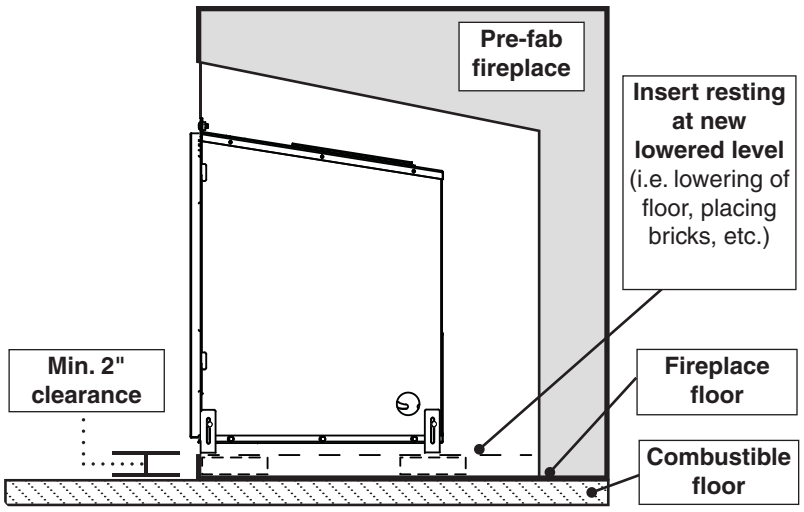

Pre-fab fireplace
Insert resting at new lowered level (i.e. lowering of floor, placing bricks, etc.)
Min. 2" clearance
Fireplace floor
Combustible floor

Fig. 20-2 Pre-fab fireplace floor height adjustment

GAS PRESSURE REQUIREMENTS

A. The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

Fuel Type	Minimum	Normal	Maximum
Natural	5" w.c.	7" w.c.	10.5" w.c.
Propane	10.5" w.c.	11" w.c.	13"w.c.

Table 8 - Inlet Gas Supply Pressure

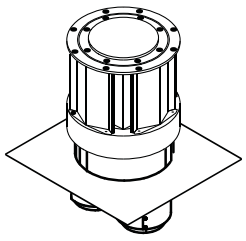
Fuel Type	Low	High
Natural	1.7" w.c.	3.5" w.c.
Propane	6.4" w.c.	10" w.c.

Table 9 - Manifold Gas Supply Pressure

VENTING REQUIREMENTS

- Installation must be done by a qualified professional service technician.
- This appliance is designed for installation into an existing masonry or factory-built solid fuel burning fireplace.
- **DO NOT** make modifications to the system. **DO NOT** substitute or add components other than those sold and/or approved by RHP.
- It is imperative that the appliance be installed **EXACTLY** as instructed in this manual.
- **It is imperative that the appliance be installed using only the following RHP approved direct-vent flex kit (see Fig. 21-1):**

  Simpson Dura Vent
  Co-Linear Kit w/ Flex: Kit w/ high-wind termination cap and two 3" x 35' flexible vent pipes - **#46DVA-CL33**



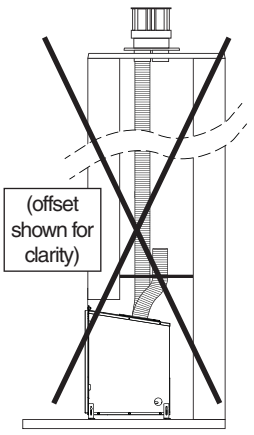
Simpson Dura Vent
#46DVA-CL33

Fig. 21-1
RHP approved venting kit

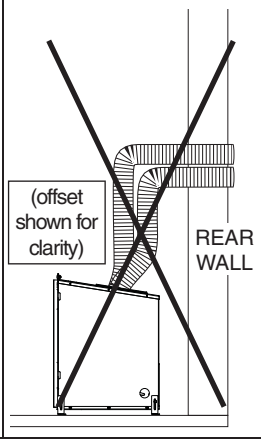
Incorrect Installation Methods

DO NOT use any of these methods, techniques, or products when installing the RHP Direct Vent Insert System. Doing so may result in a malfunctioning appliance and may render it inoperable.

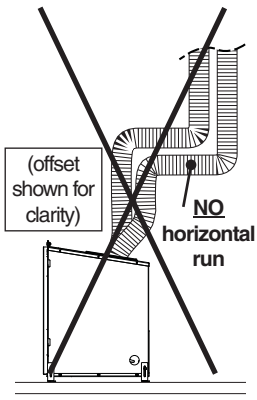
DO NOT INSTALL USING SHORT STACK METHOD



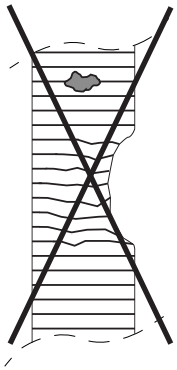
DO NOT VENT PIPES OUT REAR WALL



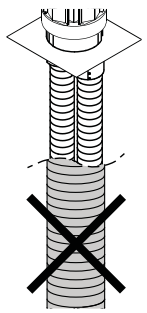
DO NOT RUN PIPES HORIZONTALLY



DO NOT CRIMP OR RUPTURE PIPES

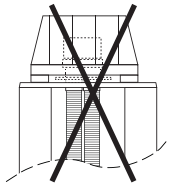


DO NOT USE A CORRUGATED CHIMNEY LINER



MAY CAUSE OVERHEATING

DO NOT USE A SHROUD



DO NOT USE THESE PRODUCTS ON PIPES:

- Milpack
- Sealant/Silicone (red or black)

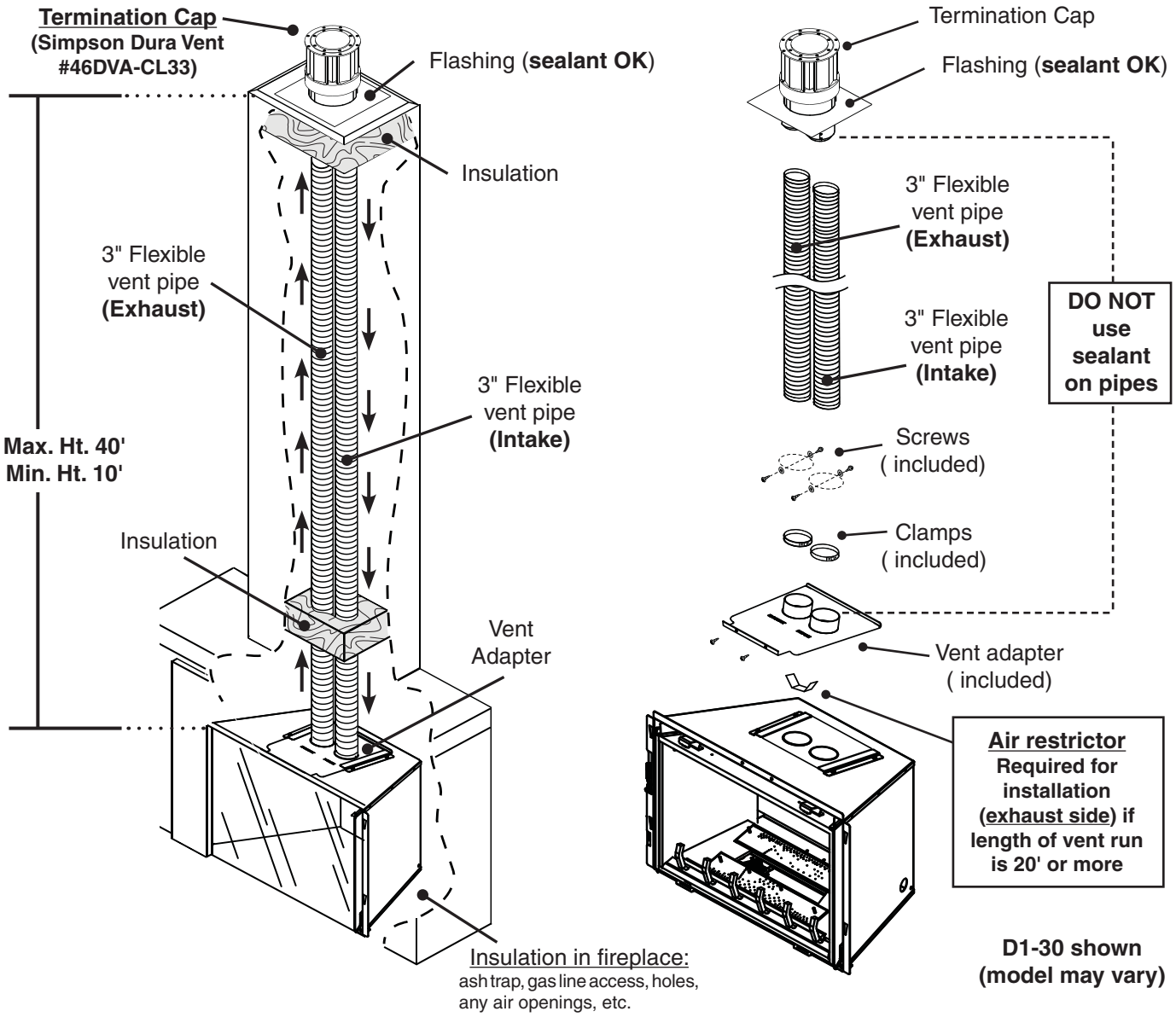
INSTALLATION REQUIREMENTS (cont.)

VENTING REQUIREMENTS (cont.)

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

- **Below are diagrams of a generic installation for the RHP approved installation method.**
- **This section is just an overview, refer to the INSTALLATION section for complete installation details.**

The RHP direct vent insert is ONLY approved for installation using the venting system configuration illustrated below:


Termination Cap
(Simpson Dura Vent #46DVA-CL33)
Flashing (sealant OK)
Insulation
3" Flexible vent pipe (Exhaust)
3" Flexible vent pipe (Intake)
Max. Ht. 40'
Min. Ht. 10'
Insulation
Vent Adapter
Insulation in fireplace:
ash trap, gas line access, holes, any air openings, etc.
Termination Cap
Flashing (sealant OK)
3" Flexible vent pipe (Exhaust)
3" Flexible vent pipe (Intake)
DO NOT use sealant on pipes
Screws (included)
Clamps (included)
Vent adapter (included)
Air restrictor
Required for installation (exhaust side) if length of vent run is 20' or more
D1-30 shown (model may vary)

- This appliance must use its own separate vent system.
- The vent system must be vented directly to outside of building.
- Ensure exhaust pipe connects to exhaust port of termination cap and exhaust port of vent adapter.
- Ensure intake pipe connects to intake port of termination cap and intake port of vent adapter.
- DO NOT crimp, rupture, or collapse pipes when routing through any fireplace contours.
- Keep pipes as STRAIGHT as possible.
- Ensure pipes pass through fireplace damper area. Remove damper.
- Carefully read all instructions included with venting kit.
- Each installation requires burner air shutter adjustment to ensure optimal flame appearance (see SERVICING AND CLEANING - AIR SHUTTER ADJUSTMENT section for details).

INSTALLATION MUST BE DONE BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN.

Important: All requirements in the INSTALLATION REQUIREMENTS section must be observed and met, prior to proceeding with installation.

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

BEFORE YOU BEGIN

Confirm the fireplace accommodates the unit and that all dimensions are met. Reference the SPECIFICATIONS AND DIMENSIONS section.

Ensure the fireplace hearth remains clear to allow for the unit to be installed without any obstructions. This includes all electrical and gas supply installations in the fireplace.

All plumbing/wiring must be routed along the rear and/or sides of the unit, NEVER ABOVE OR BELOW.

If required, non-combustible material (such as bricks) may be placed on the fireplace floor to elevate the unit to the appropriate location in the fireplace.

GAS SUPPLY SETUP

A left-side install is shown here, as the unit's valve is located on the left side. Your individual installation may vary. **Observe all local codes.**

1. Route the gas supply into the left side of the fireplace.
2. It is recommended that a gas shut-off valve (not included) be attached to the gas supply stub. Use a pipe compound resistant to all gasses. See Fig 23-1.

Note: A 3/8" C.S.A. stainless steel flex connector (not included) will be required. **The flex will be connected at a later time, when the insert is ready to be installed.**

ELECTRICAL SETUP

A **120VAC (15 AMP minimum) Ground Fault Circuit Interrupter (GFCI) GROUNDED 3-wire receptacle** (not included) is required within the vicinity of the fireplace to provide power to the unit. A left-side install is shown here, as the unit's power supply cord is located on the left side. Your individual installation may vary. **Observe all local codes.**

1. Wire the receptacle into the left side of the fireplace (see Fig 23-2).
   - **Verify proper polarity of the receptacle.**
   - **If an extension cord is used, ensure it is a 3-wire GROUNDED cord. DO NOT use 2-prong adapters.**
   - **DO NOT TAMPER WITH THE EXTENSION CORD OR THE INSERT POWER-SUPPLY CORD.**

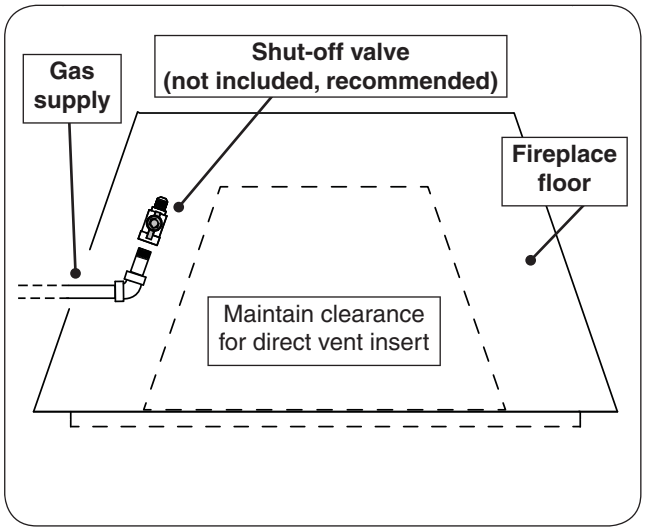


Fig. 23-1 Route gas supply

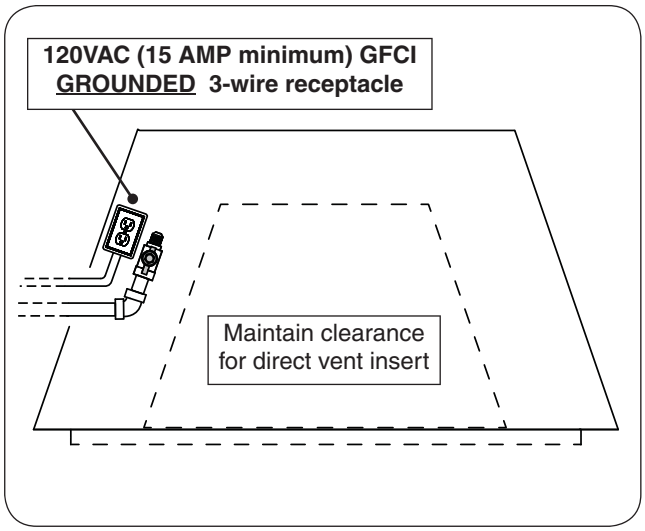


Fig. 23-2 Install electrical (receptacle)

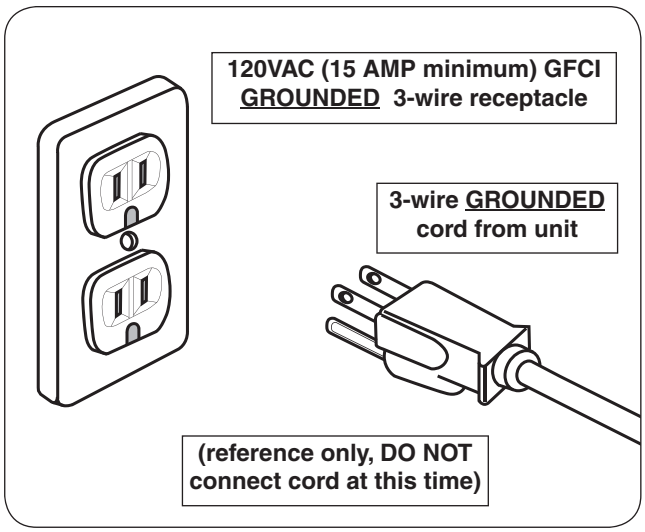

120VAC (15 AMP minimum) GFCI GROUNDED 3-wire receptacle
3-wire GROUNDED cord from unit
(reference only, DO NOT connect cord at this time)

Fig. 23-3 Electrical setup detail

DO NOT SLIDE IN THE INSERT, OR CONNECT IT TO THE GAS AND ELECTRICAL AT THIS TIME.

VENTING

Refer to the VENTING REQUIREMENTS section for important information regarding the vent system and the venting kit approved for installation with your unit. Observe all codes.

1. Remove the fireplace damper (to allow for proper clearance of the flexible vent pipes).
2. Preset the insert in the fireplace to ensure a proper fit.
3. Measure from the top of the chimney down to the location that the top of the insert / vent adapter will rest when installed (see Fig. 24-1).
4. Stretch the vent pipes to the measured length. Or, if necessary, cut the pipes to the measured length using snips or a hacksaw. See Fig. 24-2, D.

Note: Each 1 foot of pipe can be stretched to a length of 3 feet. It is highly recommended that you DO NOT fully stretch the pipes, to allow for any adjustments during installation and/or future maintenance.

5. Mark each end of one pipe. This is the exhaust. See Fig. 24-2, E.

Note: If the pipe is marked w/ arrows (indicating air flow direction): up arrow is exhaust, down arrow is intake.

6. Carefully route the pipes through the chimney (see Fig. 24-2,F.

Important: When routing pipes keep them as straight as possible, ensure they pass through damper area, and DO NOT crimp, rupture, or collapse them.

Note: Rope and a weight may be temporarily attached to the pipes to assist in routing them down the chimney.

7. Connect the termination cap to the pipes as instructed in the manufacturer instruction (see Fig. 24-2, G, and Fig. 24-3.

Important: Ensure the marked / up arrow pipe is connected to the exhaust port on the cap.

8. Pack tightly insulation (not included) around the pipes inside the top of the chimney area (prevents moisture and wind from entering chimney). See Fig. 24-4,H.
9. Place the termination cap assembly in position atop the chimney. Permanently attach using sealant and screws (as appropriate for setup). See Fig. 24-4, I.

Important: A tight connection must be made between the gas fireplace insert flue collar and the fireplace chimney.

You are now done outside.

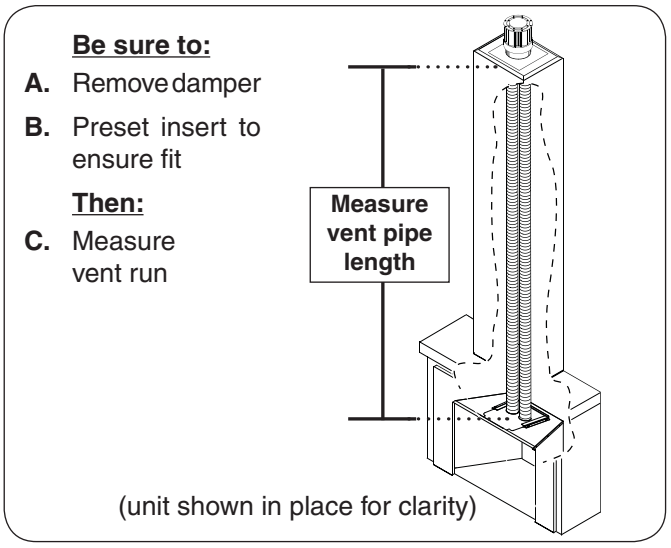


Fig. 24-1 Prepare fireplace & measure pipe length

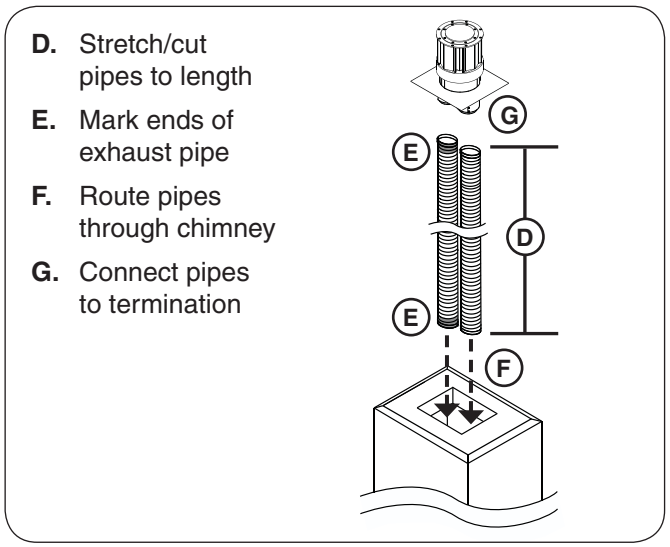


Fig. 24-2 Prepare, route, & connect pipes

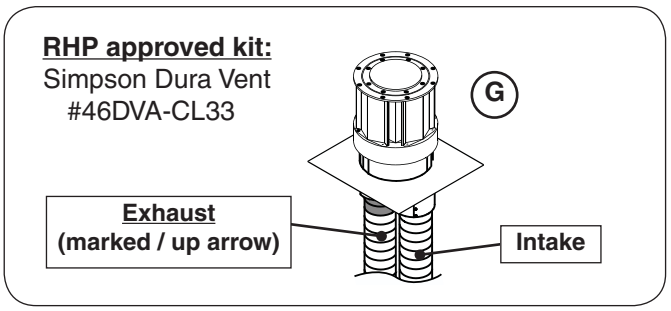


Fig. 24-3 Termination cap install detail

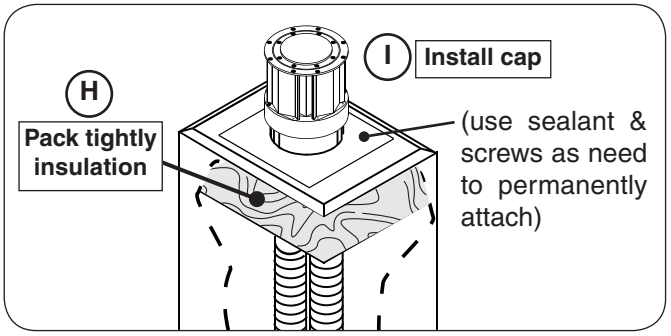


Fig. 24-4 Insulate chimney top & install cap

10. Remove the vent adapter from the top of the insert. Unfasten the two hex bolts using a $^{7}/_{16}$" nut driver and slide the adapter out (see Fig. 25-1, J). Retain the bolts for future install.

11. Remove any excess slack in the pipes. Then attach the pipes to the vent adapter using only the four provided #10 x $^{3}/_{4}$" screws, flat washers, and a Phillips screwdriver. Further secure with the supplied pipe clamps. See Fig. 25-2, K.

Important: Ensure the marked / up arrow pipe is connected to the exhaust port on the insert. The vent adapter is permanently marked, see Fig. 25-2.

12. Pack tightly insulation (not included) in fireplace around pipes at damper area (inside bottom of chimney), ash trap, gas line access, holes, and any air openings, etc. See Fig. 25-3, L.

Air Restrictor (if applicable)

The air restrictor must be installed into the insert if the length of the vent run is 20' or more. This will ensure proper air flow and optimal flame appearance, and prevent on/off cycling of the burner system.

To install, insert the restrictor (flat side down) into the **exhaust** opening found on the top of the insert as shown in Fig. 25-4, M.

Important: Ensure the air restrictor is fully pushed down into the hole so that it will not interfere with the later install of the vent adapter.

CAUTION: The **exhaust** opening is the **left** hole found on the top of the insert.

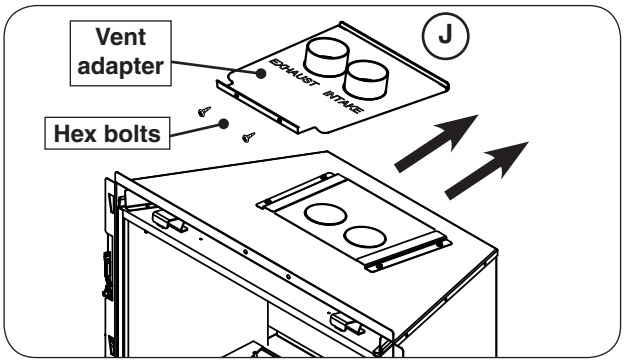


Fig. 25-1 Remove vent adapter

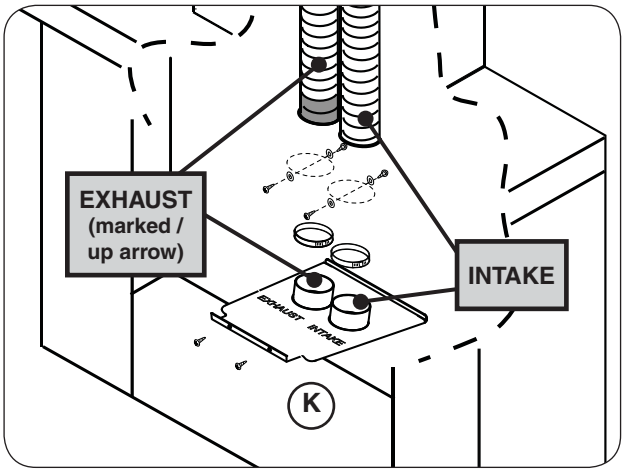


Fig. 25-2 Install vent adapter

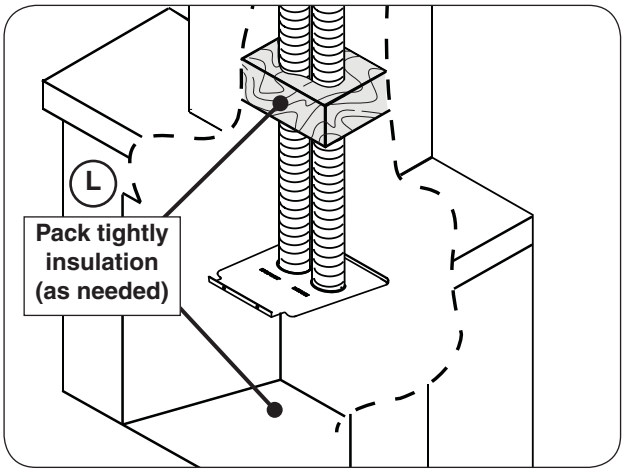


Fig. 25-3 Insulate chimney and fireplace

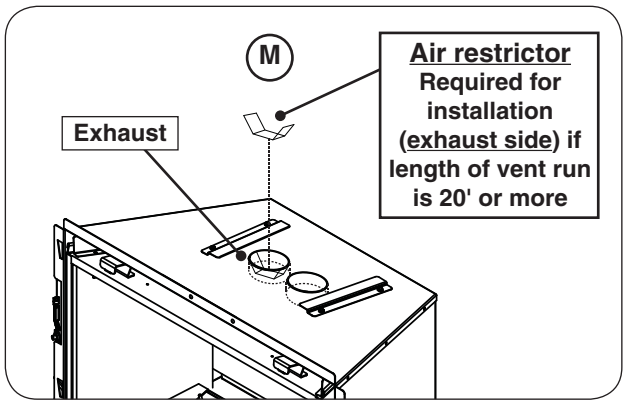


Fig. 25-4 Install air restrictor (if applicable)

DIRECT VENT INSERT

1. Carefully slide the direct vent insert just inside of the fireplace opening, still allowing for access to the interior of the fireplace (see Fig. 26-1, A). Ensure the insert is properly supported during this entire process.
2. MAKE SURE THE FIREPLACE GAS SUPPLY IS TURNED OFF.
3. Connect a 3/8" C.S.A. stainless steel flex connector (not included) to the gas valve on the left side of the insert. Tighten securely. Then connect the open end of the flex connector to the previously plumbed gas supply / shut-off valve (see Fig. 26-2, B). Use a pipe compound resistant to all gasses on all male connections except brass to brass connections.
4. LEAK TEST: Turn on the fireplace gas supply, open the shut-off valve, and test at all connections for leaks using an appropriate soapy water solution. If bubbles appear, a leak is present. Turn off the gas and tighten at all connections. Repeat until no leaks are present. If a leak persists, turn off the gas supply and contact the local gas company or dealer. NEVER USE A FLAME TO CHECK FOR LEAKS.
5. Connect the power supply cord coming from the left side of the unit to the previously wired **120VAC (15 AMP minimum) GFCI GROUNDED 3-wire receptacle** (see Fig. 26-2, C).

WARNING: Electrical Grounding Instructions - This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

6. Slide the vent adapter into the top of the direct vent insert as shown in Fig. 26-3, D. Simultaneously slide the direct vent insert fully into the fireplace. The supplied wire hook can be used to assist in pulling the vent adapter forward into the insert. Fasten the vent adapter using the two hex bolts and a 7/16" nut driver.

Important: When sliding in the unit, ensure all plumbing/ wiring is routed along the rear and/or sides of the unit, NEVER ABOVE OR BELOW.

7. The unit has four adjustable legs for leveling purposes. Adjust each leg as needed to level the unit. Ensure each leg rests on the fireplace floor. Use a Phillips screwdriver to loosen a leg, move it to the required height, and then re-tighten the screw. See Fig. 26-4, E.
8. The adjustable legs have 5/16" holes. The holes on the two front legs (only) are for the purpose of fastening the unit down in the fireplace. Using appropriate mounting hardware for your fireplace construction, secure the two front legs into the floor.

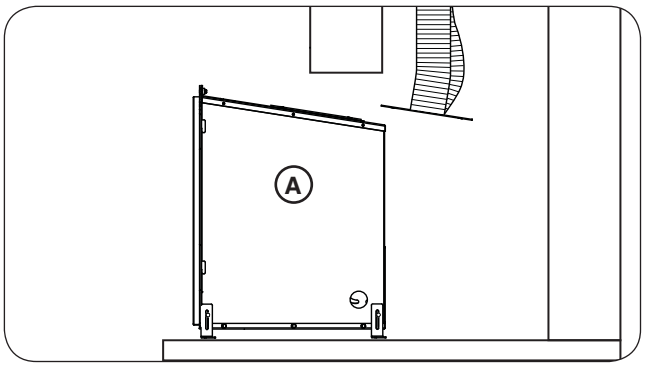


Fig. 26-1 Slightly slide in unit

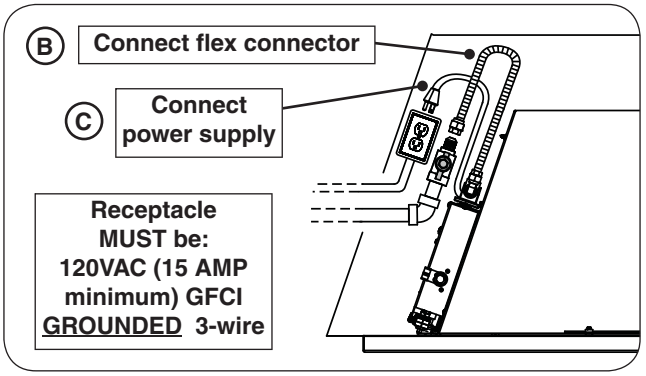


Fig. 26-2 Make gas & electrical connections

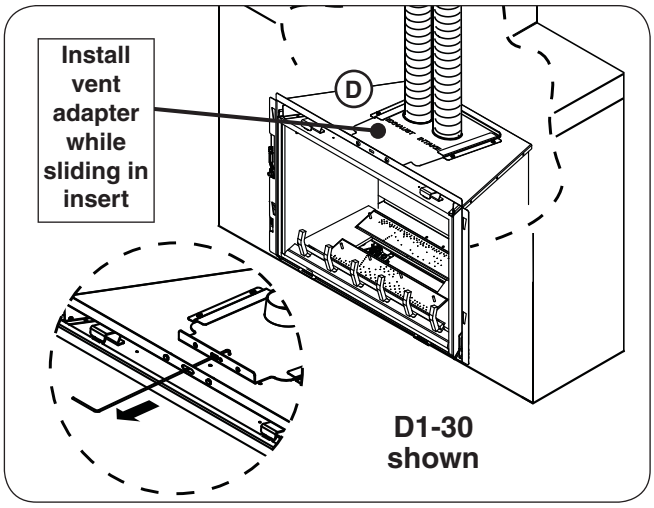


Fig. 26-3 Fully slide-in unit / install vent adapter

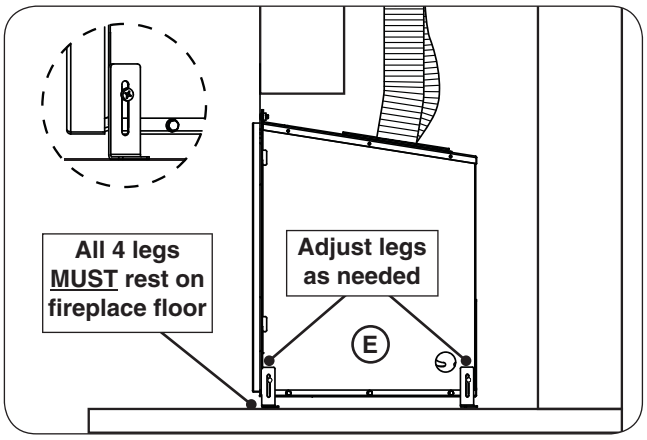


Fig. 26-4 Use adjustable legs to level (as needed)

INSTALL BATTERIES

Ensure all control/remote system components are in the **OFF** position prior to installing any batteries.

Remote transmitter:

The remote transmitter requires 3 AAA batteries (included) to operate.

1. Locate the remote transmitter, remove the lid (found on rear), and properly insert the batteries as marked. Re-secure the lid. See Fig. 27-1.

Remote receiver:

The remote receiver requires 4 AA batteries (included) to operate. Turn off gas to the unit. Locate the receiver on the control box, which is located on the left side of the unit (see Fig. 27-2).

2. Slide the 3-position switch on the receiver to the **ON** position, then remove the switch. Unfasten the plastic plate using a Phillips screwdriver. See Fig. 27-3. Remove the battery lid (push in tabs) and properly insert the batteries as marked (see Fig. 27-4). Re-secure the lid, the plate, and the switch.

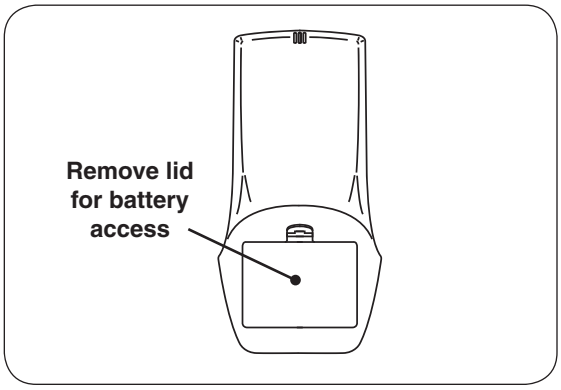


Fig. 27-1 Install transmitter batteries

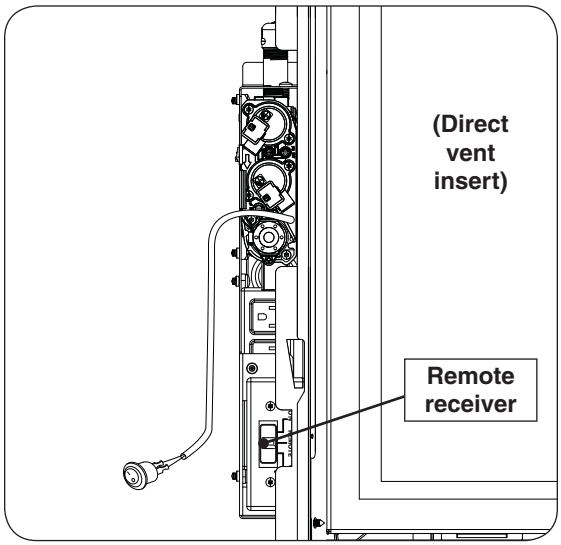


Fig. 27-2 Control box (left side of unit)

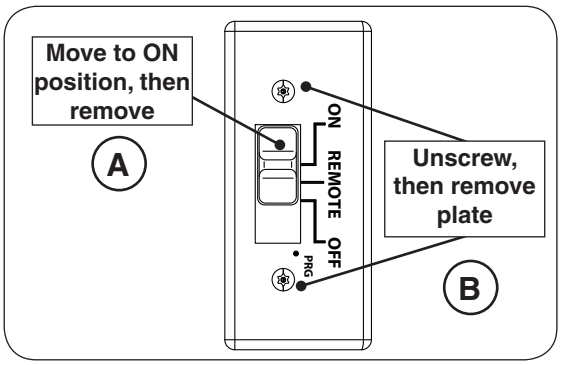


Fig. 27-3 Remove switch and plate for battery access

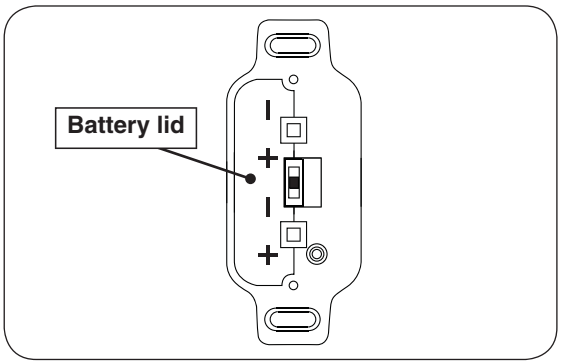


Fig. 27-4 Install receiver batteries

FIRST TIME PILOT/BURNER LIGHTING TEST

The insert comes with the glass panel pre-installed. **Prior to testing the pilot, the panel must be removed (wear gloves).** This is required to purge the gas line of air and to inspect the pilot lighting spark. For removal reference the SERVICING & CLEANING, GLASS PANEL REMOVAL section.

CAUTION: Begin with all control/remote system components in the **OFF** position.

1. The control box is on the left side of the unit. Locate the remote receiver on the control box (see Fig. 28-1). Slide the 3-position switch on the receiver to the **REMOTE** position (see Fig. 28-2).
2. Locate the standing pilot toggle switch on the control box (Fig. 28-1). Flip switch to the **ON** position (Fig. 28-3). You will hear a series of clicks and after a few seconds, you will hear sparking at the pilot spark electrode.
3. Allow adequate time for the air in the gas-line to purge. The control system will stop sparking after 30 seconds if the pilot does not light. After a 30 second delay the control system will start sparking again for 30 seconds more. If the pilot does not light after the third 30 second spark event, the system will enter "Lock-Out" mode. To unlock from "Lock-Out" mode, slide the receiver switch to **OFF**, wait 1 minute and slide back to **REMOTE**. Repeat this sequence until the pilot flame lights and the pilot is burning steadily. After you inspect the spark and the pilot lights, turn **OFF** the standing pilot switch.

   If the pilot fails to light after several attempts at the sequence above, turn all control/remote system components to **OFF** and refer to the TROUBLESHOOTING section for further details.
4. **Re-install the glass panel per the INSTALLATION, GLASS PANEL section.**

WARNING: DO NOT IGNITE MAIN BURNERS WITH GLASS PANEL REMOVED.

5. Locate the ON/OFF switch that is currently coming out of the control box (see Fig. 28-1). Switch it to the **ON (I)** position (see Fig. 28-4).
6. Slide the receiver switch to the **ON** position. All burners should ignite. At this time with burners on, perform the gas pressure test as instructed in the following section.

Initial operation will produce an odor and some smoke due to lubricants used in the manufacturing process. This is normal and will cease after at least 30 minutes of operation. Keep the house well ventilated during this process.

GAS PRESSURE TEST

7. With burners on, check the gas pressure to ensure all requirements are met. Reference Fig. 28-5 for pressure tap locations, and the GAS PRESSURE REQUIREMENTS section for details.
8. Turn all control/remote system components to **OFF**.

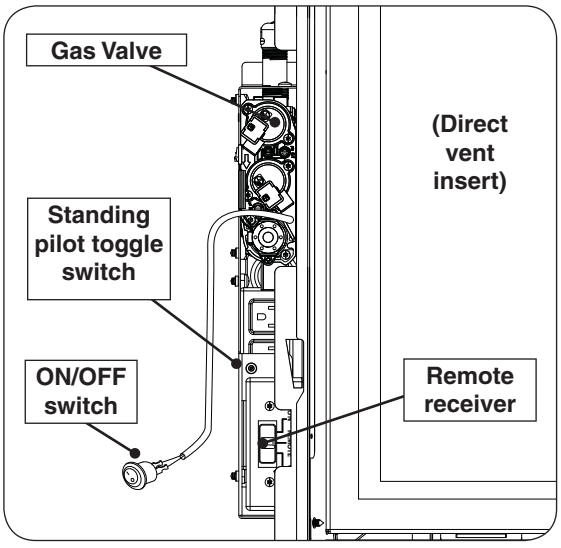


Fig. 28-1 Control box (left side of unit)

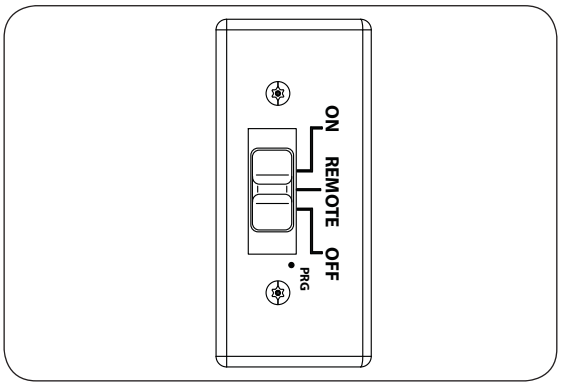


Fig. 28-2 Remote receiver detail

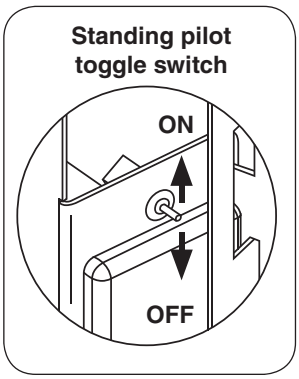


Fig. 28-3

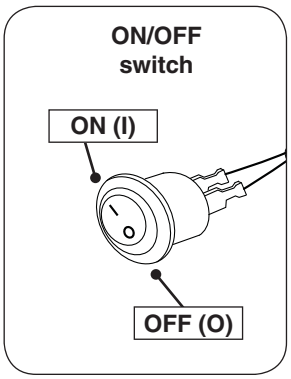


Fig. 28-4

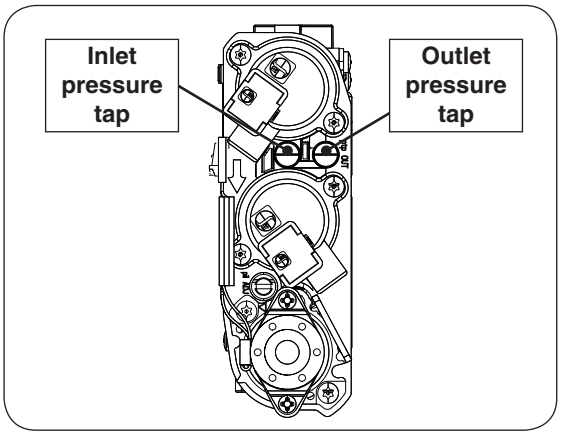


Fig. 28-5 Gas valve detail

REFRACTORY PANELS

CAUTION: Prior to proceeding with panel installation, the insert must be installed in the fireplace, the venting system must be attached, the electrical must be connected, the gas line must be connected, and the initial burner operation must be checked.

Important: Use care when handling and installing the refractory panels to prevent damage to the finish.

Prior to panel placement:

1. Remove the glass panel (wear gloves). For removal reference the SERVICING & CLEANING, GLASS PANEL REMOVAL section.
2. Remove the lintel found at the top front of the unit (to allow for panel placement). Use a $^{5}/_{16}$" nut driver to remove the two hex screws found on each side of the lintel. See Fig. 29-1.
3. Remove the grate. Use a Phillips screwdriver to remove the two screws found on each side of the grate. Then remove the front floor panel. See Fig. 29-2.
4. Remove the ember screen. Remove the 2/4 hex screws found on the ends of the burner(s) using a $^{5}/_{16}$" nut driver (see Fig. 29-3).

Note: D1-25 models will only have one burner, and will not have an ember screen.

5. Remove the burner by sliding it to the right, so that the venturi tube clears the orifice, then fully out (see Fig. 29-4). Repeat for the second burner if applicable.

Panel placement:

6. Place the rear panel at the rear of the unit. It will rest on the shelf found on the lower rear of the unit. See Fig. 29-5, "A".
7. Place the left panel on the left side of the unit. Ensure it completely rests inside of the front lip of the unit. See Fig. 29-5, "B".

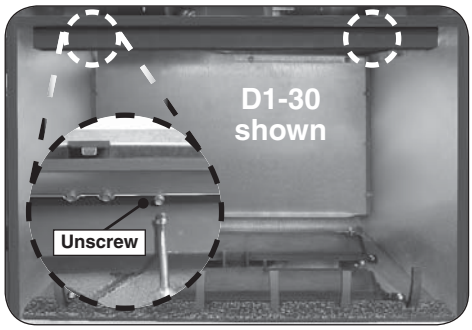


Fig. 29-1 Remove lintel

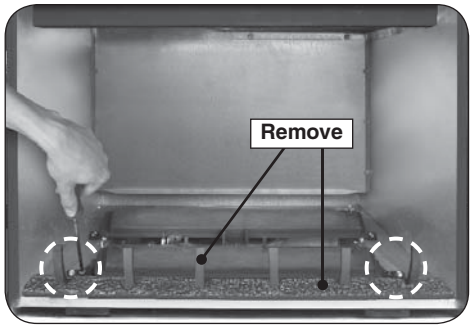


Fig. 29-2 Remove grate & front floor panel

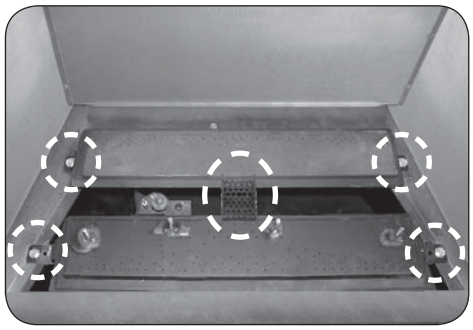


Fig. 29-3 Remove screen & hex scews

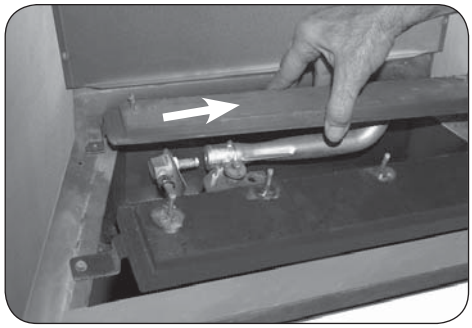


Fig. 29-4 Remove burner

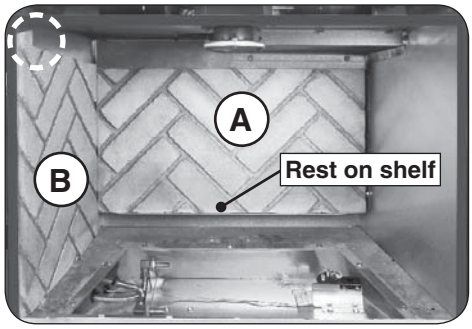


Fig. 29-5 Place rear panel, left panel

8. Place the top panel into the unit as shown in Fig. 30-1, "C". It will be supported by the left panel.
9. Place the right panel on the right side of the unit. Ensure it completely rests inside of the front lip of the unit. See Fig. 30-2, "D".
10. Re-install the lintel at the top front of the unit. Use the two existing hex screws and a $^{5}/_{16}$" nut driver. See Fig. 30-3, "E".
11. Re-install the burner(s) and ember screen (if applicable). Use the existing hex screws and a $^{5}/_{16}$" nut driver for the burner. See Fig. 30-4, "F" and "G".
12. Re-install the front floor panel at the front of the unit floor. Ensure it completely rests inside of the front lip of the unit. See Fig. 30-4, "H".
13. Re-install the grate in between the front burner and front floor panel. Use the two existing screws and a Phillips screwdriver. See Fig. 30-5, "I".
14. Install the left and right floor panels on each side of the burner assembly. See Fig. 30-5, "J" and "K".

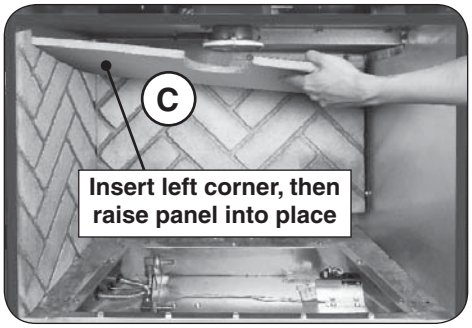


Fig. 30-1 Place top panel

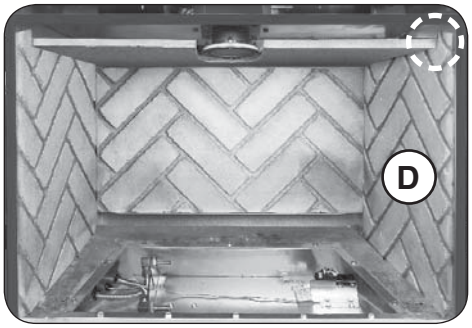


Fig. 30-2 Place right panel

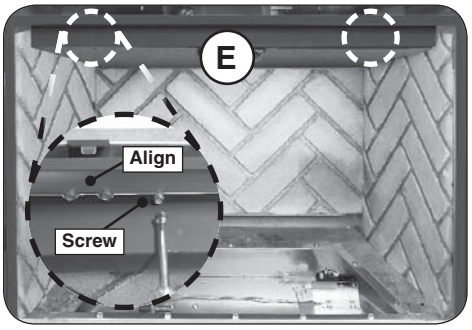


Fig. 30-3 Install lintel

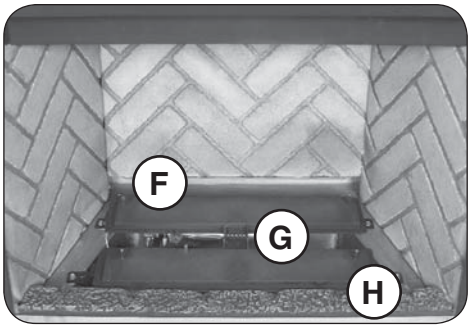


Fig. 30-4 Install burner(s), screen, front floor panel

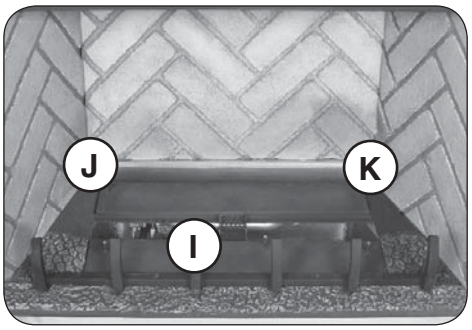


Fig. 30-5 Grate, left/right floor panel

GLOWING EMBERS

D1-25 Models:

1. Separate the glowing embers into small pieces and evenly place them along the burner ports as shown in Fig. 31-1.
2. Separate the bryte coals into small pieces and evenly place them along the very front of the burner / glowing embers as shown in Fig. 31-2.

CAUTION: The embers must be placed as shown. DO NOT add any additional embers for this installation. Any additional embers will cause unsafe operation.

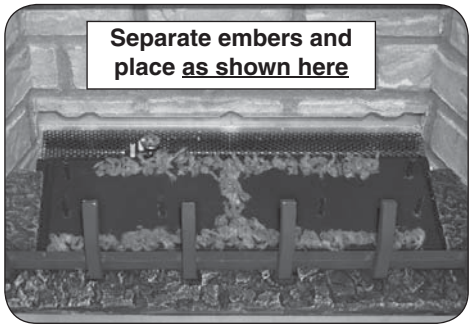


Fig. 31-1 D1-25: Place glowing embers

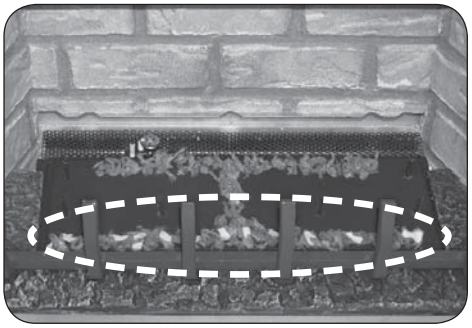


Fig. 31-2 D1-25: Place bryte coals

D1-30/36 Models:

Important: Prior to placing the glowing embers, ensure the ember screen that rests in between the front and rear burner is properly positioned. See Fig. 31-3 for details.

1. Separate the glowing embers into small pieces and evenly place them along the burner ports as shown in Fig. 31-4.

   For D1-30/36 models, the bryte coals are not placed until after the logs are installed.

CAUTION: The embers must be placed as shown. DO NOT add any additional embers for this installation. Any additional embers will cause unsafe operation.

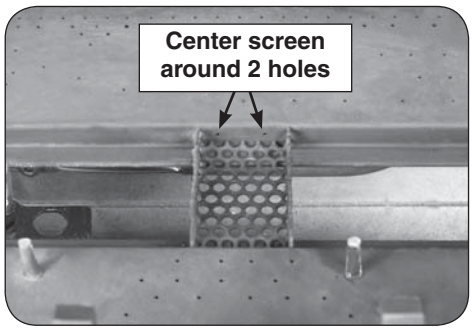


Fig. 31-3 D1-30/36: Proper screen position

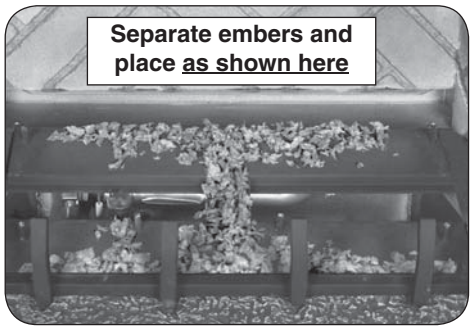


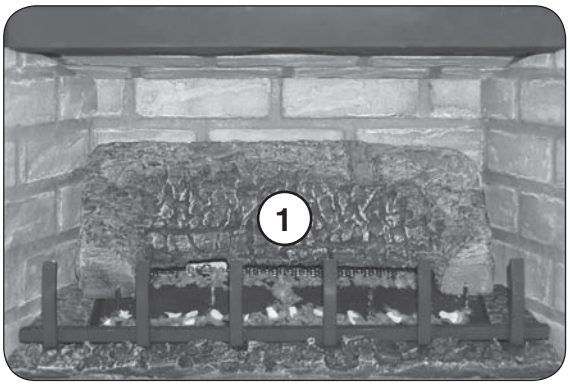
Fig. 31-4 D1-30/36: Place glowing embers

25" LOG SET

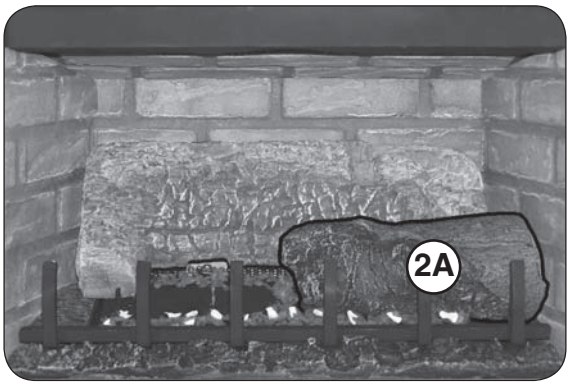
You must position and maintain the log layout as shown here to ensure proper operation of the direct vent insert. Incorrect log installation could cause flame impingement and improper combustion, resulting in soot and/or excessive by-products of combustion.

Note: Each log is numbered (on the log bottom) to aid in placement. Burnt American Oak log set shown here.

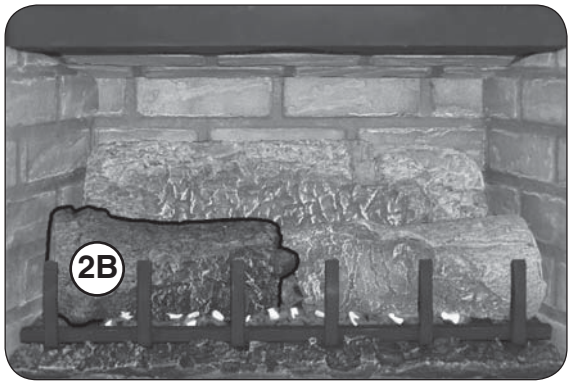
Important: HANDLE LOGS WITH CARE AT ALL TIMES.



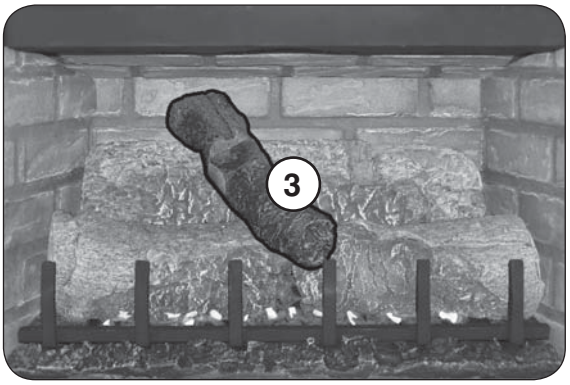
Place the rear log (log #1) as shown. The bottom of the log has two holes that align with two pegs found on the burner.



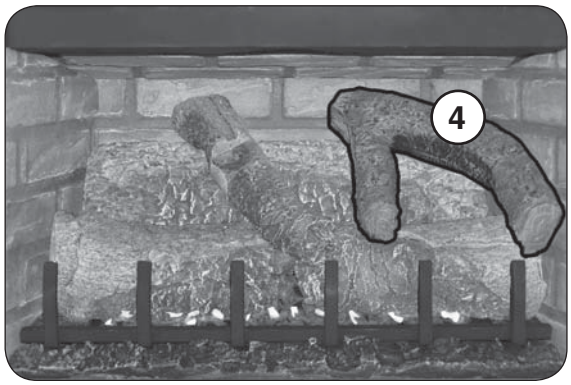
Place the right front log (log #2A) as shown. The bottom of the log has two holes that align with two pegs found on the burner.



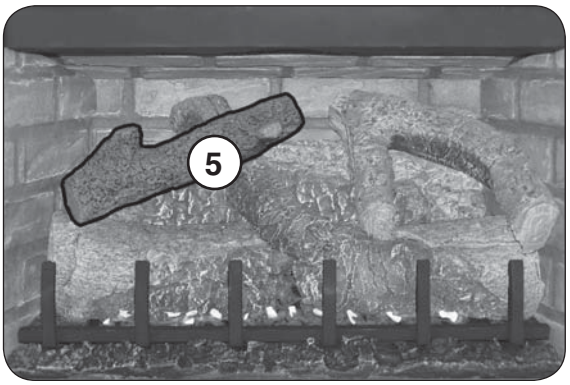
Place the left front log (log #2B) as shown. The bottom of the log has two holes that align with two pegs found on the burner.



Place the middle top log (log #3) as shown. The rear log has a notch to aid in positioning the top log.



Place the right top log (log #4) as shown. The rear log has a notch to aid in positioning the top log.



Place the left top log (log #5) as shown. The middle top log has a notch to aid in positioning the left top log.

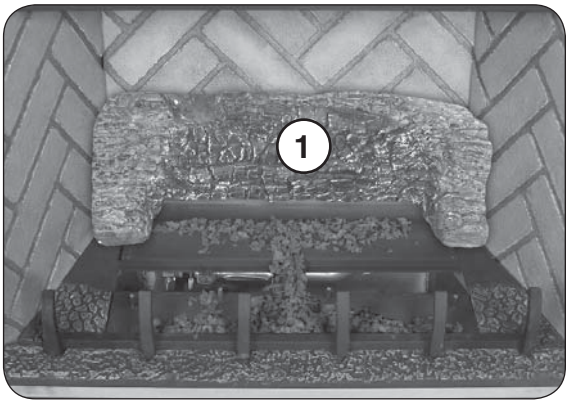
Periodically check the positioning of the logs to ensure proper log placement.

30" LOG SET

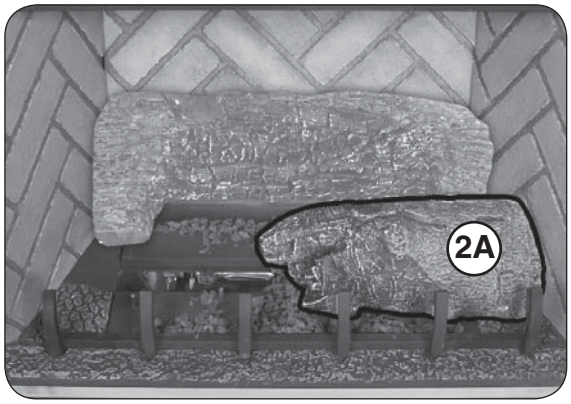
You must position and maintain the log layout as shown here to ensure proper operation of the direct vent insert. Incorrect log installation could cause flame impingement and improper combustion, resulting in soot and/or excessive by-products of combustion.

Note: Each log is numbered (on the log bottom) to aid in placement. Burnt American Oak log set shown here.

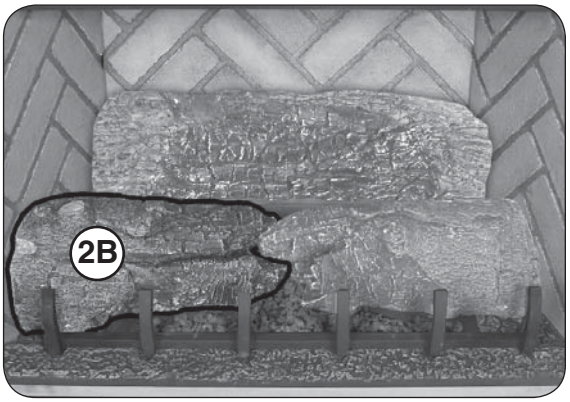
Important: HANDLE LOGS WITH CARE AT ALL TIMES.



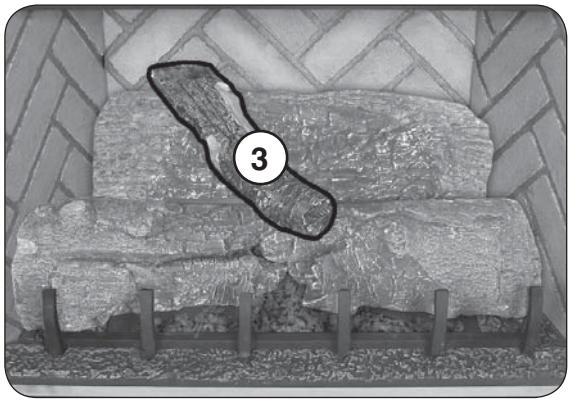
Place the rear log (log #1) as shown. The bottom of the log has two holes that align with two pegs found on the rear burner.



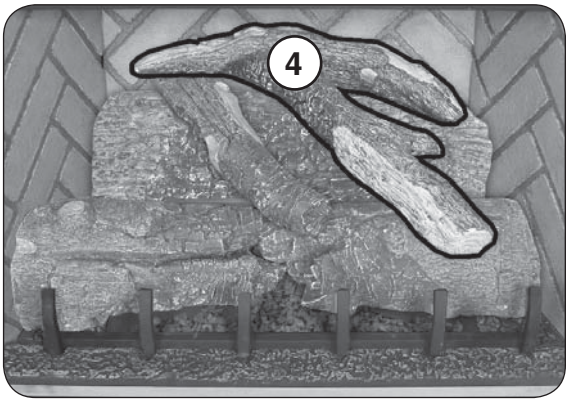
Place the right front log (log #2A) as shown. The bottom of the log has two holes that align with two pegs found on the front burner.



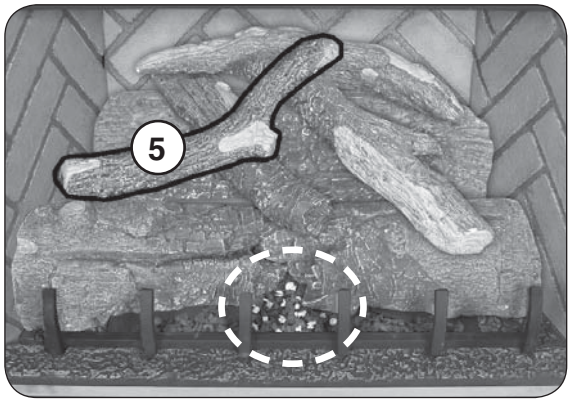
Place the left front log (log #2B) as shown. The bottom of the log has two holes that align with two pegs found on the front burner.



Place the middle top log (log #3) as shown. The rear log has a notch to aid in positioning the top log.



Place the right top log (log #4) as shown.



Place the left top log (log #5) as shown. The middle top log has a notch to aid in positioning the left top log. Separate the bryte coals into small pieces and evenly place them in the area shown above.

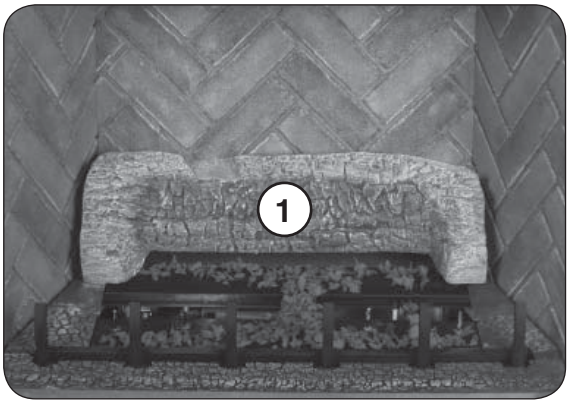
Periodically check the positioning of the logs to ensure proper log placement.

36" LOG SET

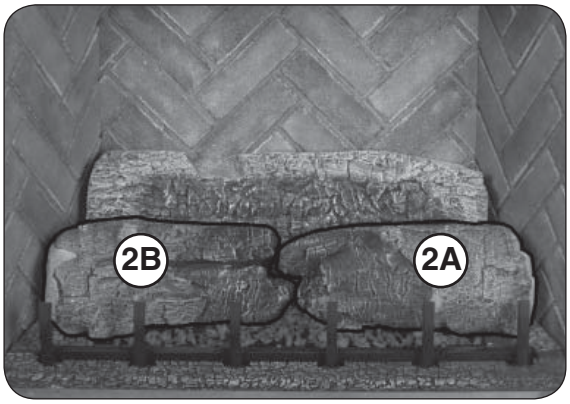
You must position and maintain the log layout as shown here to ensure proper operation of the direct vent insert. Incorrect log installation could cause flame impingement and improper combustion, resulting in soot and/or excessive by-products of combustion.

Note: Each log is numbered (on the log bottom) to aid in placement. Burnt American Oak log set shown here.

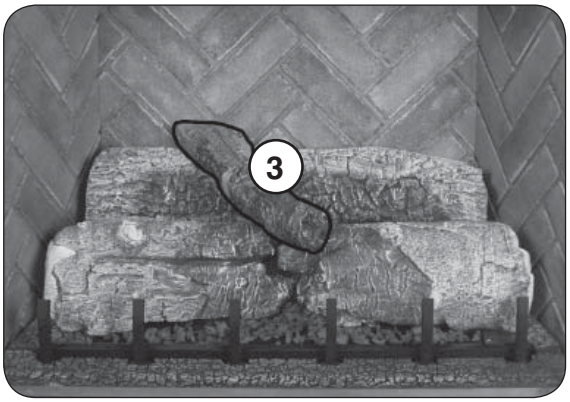
Important: HANDLE LOGS WITH CARE AT ALL TIMES.



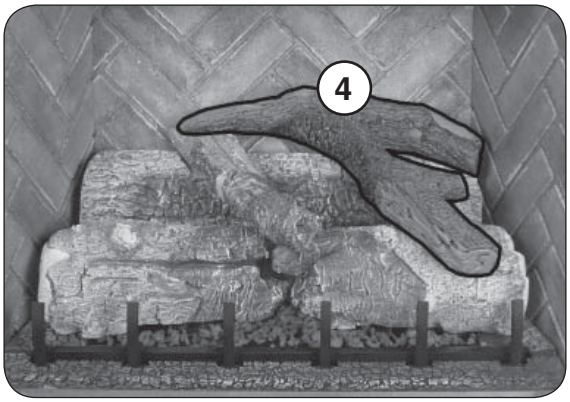
Place the rear log (log #1) as shown. The bottom of the log has two holes that align with two pegs found on the rear burner.



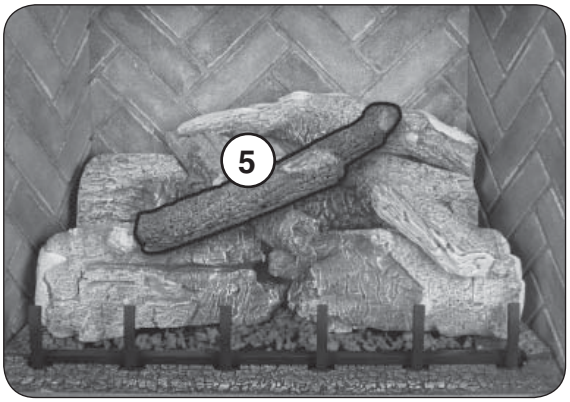
Place the front right log (#2A) followed by the front left log (#2B) as shown. The bottoms of each log have two holes that align with two pegs found on the front burner.



Place the middle log (log #3) as shown. The rear log has a notch to aid in positioning the log.



Place the right top log (log #4) as shown.



Place the middle top log (log #5) as shown.

Place the left top log (log #6) as shown.

Separate the bryte coals into small pieces and evenly place them in the area shown above.

Periodically check the positioning of the logs to ensure proper log placement.

GLASS PANEL

When handling the glass panel, be sure to wear clean non-marking gloves to ensure a clean finish and avoid any fingerprints.

Important: When installing the glass panel, ensure that no media, objects, or debris exist along the bottom of the unit that may obstruct/damage the glass panel. See Fig. 35-1.

1. The bottom of the glass panel has two tabs. Insert the tabs into the two slots found on the bottom of the unit. See Fig. 35-1, "A".
2. With the bottom of the panel in place, rotate the panel upward until it closes. Then pull the spring latches (found on the top of the unit) out and over the two tabs found on the top of the panel. See Fig. 35-2, "B".

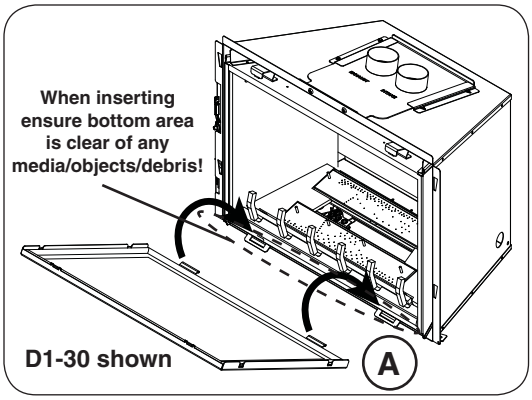


Fig. 35-1 Insert glass panel bottom

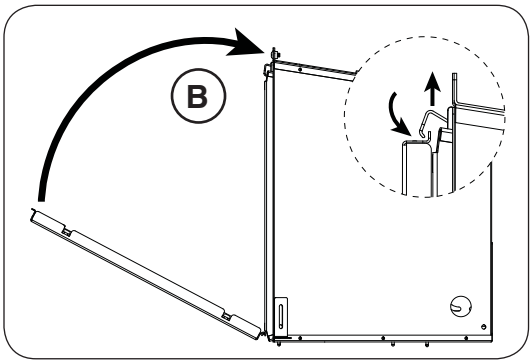


Fig. 35-2 Secure glass panel

INITIAL AIR SHUTTER ADJUSTMENT

Each installation requires burner air shutter adjustment to ensure optimal flame appearance. Refer to the SERVICING AND CLEANING - AIR SHUTTER ADJUSTMENT section for details.

Important: For D1-30 and D1-36 models, only the **rear** burner requires adjustment.

SURROUND AND BARRIER SCREEN

When handling the surround and barrier screen components, be sure to wear clean non-marking gloves to ensure a clean finish and avoid any fingerprints.

1. Slide the unit a few inches forward in the fireplace (to assist in the surround installation).
2. The rear of the surround has 4 hooks. Insert the hooks into the four slots found on the front of the unit. Ensure the surround firmly rests down in place. See Fig. 35-3, "C".

Note: The ON/OFF switch on the unit must be installed during the installation of the surround. Disconnect the switch from its wires, route the wires through the hole found on the left side-panel of the surround, reconnect the wires, and snap the switch into place. See Fig. 35-3, "D".

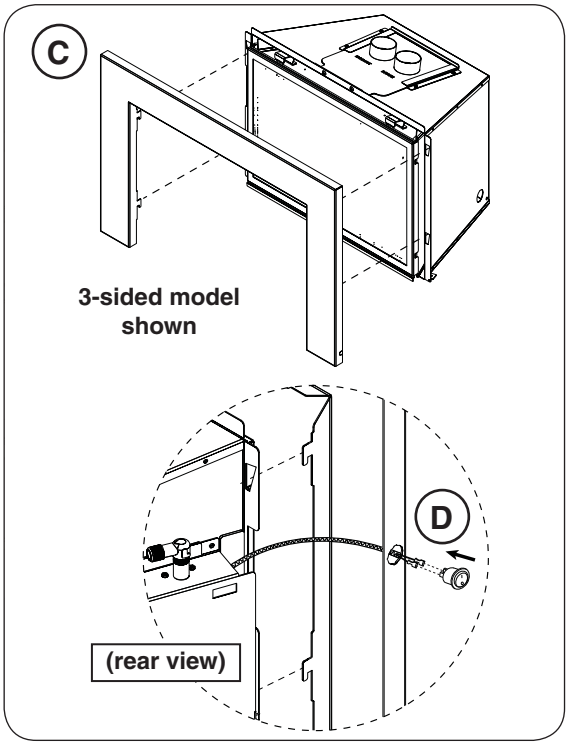


Fig. 35-3 Install surround and switch

3. Install the eyebrow as shown in Fig. 36-1, "E". The eyebrow has 3 tabs that install into the 3 hems located underneath the top side of the surround.
4. Similar to the surround, the fine mesh barrier screen has side hooks. Carefully insert the hooks into the same slots that the surround rests in. Ensure the screen firmly rests down in place. See Fig. 36-2, "F".
5. Slide the unit back into the fireplace.

Prior to lighting and operating your unit, you must read and understand the following sections:

- **LIGHTING INSTRUCTIONS**
- **REMOTE OPERATING INSTRUCTIONS**

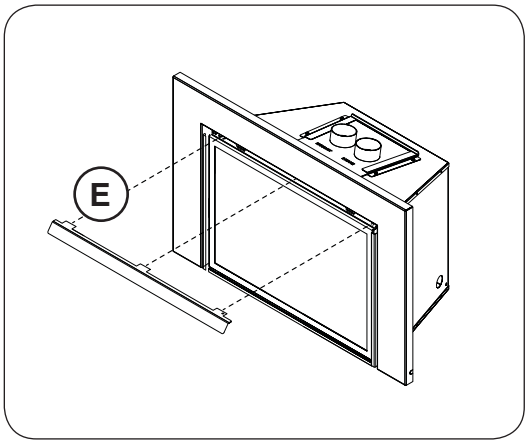


Fig. 36-1 Install eyebrow

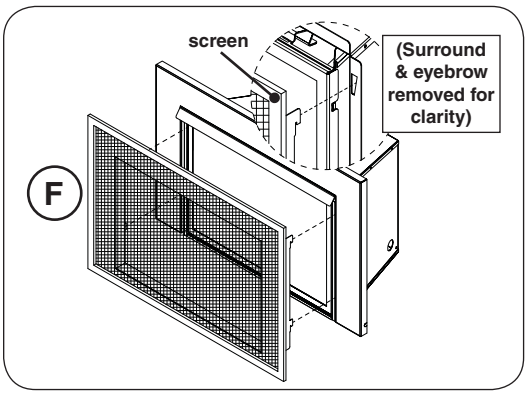


Fig. 36-2 Install fine mesh barrier screen

LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

WARNING: **The glass panel and other surfaces of this appliance get extremely HOT and can cause burns if touched. Carefully read, understand, and follow the lighting and operation instructions, and use caution at all times.**

A. This appliance is equipped with an ignition device that automatically lights the pilot. DO NOT attempt to light the pilot by hand.

B. BEFORE OPERATING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Do not light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.

C. Use only the supplied standing pilot toggle switch or the control/remote system components to light the pilot. This valve will not operate if the pilot is not lit and stable.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water. Attempted operation may result in fire or explosion resulting in property damage, personal injury or loss of life.

Initial operation will produce an odor and some smoke due to lubricants used in the manufacturing process. This is normal and will cease after at least 30 minutes of operation. Keep the house well ventilated during this process.

INTERMITTENT PILOT MODE AND STANDING PILOT MODE

This appliance is equipped with an electronic ignition system that first lights a pilot then uses the pilot to ignite the main burners. By default, the pilot is in "Intermittent Pilot" mode, and will only light and remain on while the main burners are operating. The pilot can be set to the "Standing Pilot" mode, allowing the pilot to remain on indefinitely.

Note: Access to the standing pilot toggle switch requires removal of the surround. The switch is located on the control box. (The control box is on the left side of the unit.)

Intermittent Pilot Mode: This default mode turns the pilot light off when the appliance is not functioning and only lights the pilot automatically when the main burners are turned on.

Standing Pilot Mode: If the standing pilot switch is toggled on, the pilot will ignite and remain on as long as the switch is in the **ON** position.

Note: It is recommended that the "Standing Pilot" mode be used during the winter months when external temperatures fall below 50°F.

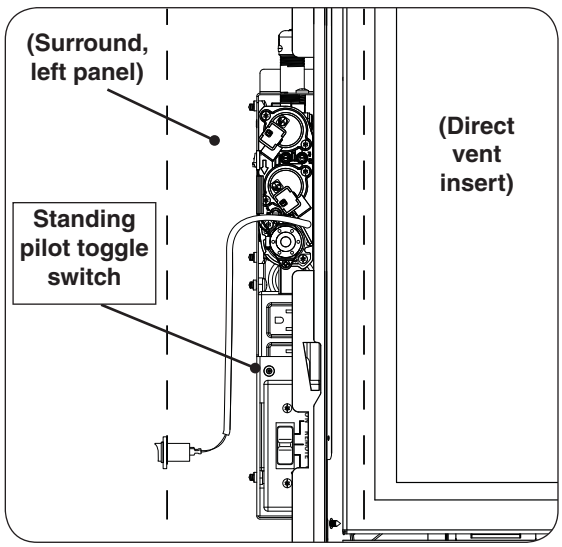


Fig. 37-1 Control box (left side, behind surround)

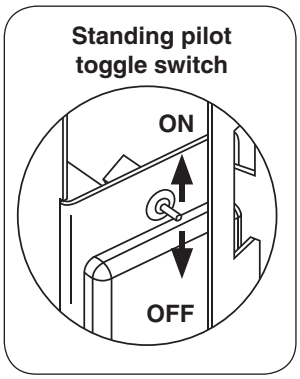


Fig. 37-2

INSTRUCTIONS D'ALLUMAGE

POUR VOTRE SÉCURITÉ LISEZ AVANT D'ALLUMER

AVERTISSEMENT: Si vous ne suivez pas ces instructions à la lettre, un incendie ou une explosion entraînant des dommages matériels, des blessures ou des pertes de vie.

A. Cet appareil est équipé d'un dispositif d'allumage qui allume automatiquement la veilleuse. NE PAS essayer d'allumer la veilleuse manuellement.

B. **AVANT DE FAIRE FONCTIONNER**, sentez autour de l'appareil pour le gaz. Assurez-vous de sentir près du plancher, car certains gaz sont plus lourds que l'air et se déposent sur le sol.

QUE FAIRE SI UNE ODEUR DE GAZ

- Ne pas allumer l'appareil.
- Ne touchez à aucun interrupteur électrique; n'utilisez aucun téléphone dans votre bâtiment.
- Appelez immédiatement votre fournisseur de gaz à partir du téléphone d'un voisin. Suivez les instructions du fournisseur de gaz. Si vous ne pouvez joindre votre fournisseur de gaz, appeler les pompiers.

C. Utilisez uniquement le commutateur à bascule fourni veilleuse permanente ou la commande / composants du système à distance pour allumer la veilleuse. Cette vanne ne fonctionne pas si le pilote n'est pas allumé et stable.

D. Ne pas utiliser cet appareil si une partie quelconque a été submergée. Appelez immédiatement un technicien de service qualifié pour inspecter l'appareil et pour remplacer toute pièce du système de contrôle et toute commande de gaz qui a été sous l'eau. Tentative d'opération peut entraîner un incendie ou une explosion entraînant des dommages matériels, des blessures ou des pertes de vie.

Mise en service produira une odeur et de la fumée grâce aux lubrifiants utilisés dans le processus de fabrication. Ceci est normal et cessera après au moins 30 minutes de fonctionnement. Garder la maison bien aérée pendant ce processus.

MODE PILOTE ET MODE INTERMITTENT VEILLEUSE PERMANENTE

Cet appareil est équipé d'un système d'allumage électronique qui allume un premier pilote utilise ensuite le pilote pour allumer les brûleurs principaux. Par défaut, le pilote est en "veilleuse intermittente" mode, et ne s'allume et reste allumé pendant que les brûleurs principaux fonctionnent. Le pilote peut être réglé sur le "Pilot permanent" mode, ce qui permet au pilote de rester indéfiniment.

Note: L'accès à l'interrupteur à bascule veilleuse permanente exige le retrait de la bordure. L'interrupteur se trouve sur le boîtier de commande. (Le boîtier de commande est sur le côté gauche de l'appareil.)

Mode de pilote intermittent: Ce mode par défaut devient le pilote s'allume coupe lorsque l'appareil ne fonctionne pas et ne s'allume que le pilote automatiquement lorsque les brûleurs principaux sont allumés.

Permanent en mode pilote: Si l'interrupteur de veilleuse permanente est basculé sur la veilleuse s'allume et reste allumé tant que le commutateur est en position ON.

Note: Il est recommandé que le "pilote permanent" mode être utilisé pendant les mois d'hiver lorsque les températures extérieures tombent en dessous de 50°F.

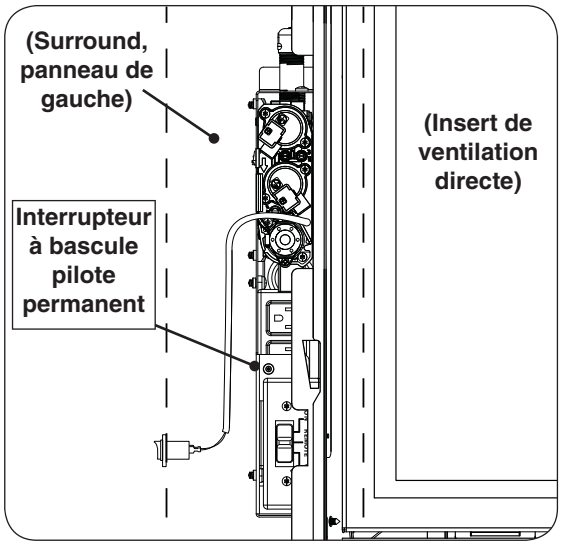


Fig. 38-1 Boîtier de commande (côté gauche, derrière surround)

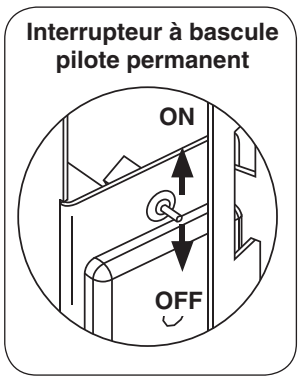


Fig. 38-2

REMOTE LIGHTING

CAUTION: DO NOT attempt to light the pilot by hand. DO NOT operate this appliance without the glass panel installed.

Note: If the remote does not function, and batteries with an adequate power level are installed, refer to the SYNCHRONIZE REMOTE SYSTEM section.

Note: Steps 1 and 2 may not be required if previously done during an earlier lighting.

1. The control box is on the left side of the unit. Locate the remote receiver on the control box (see Fig. 39-1). Slide the 3-position switch on the receiver to the **REMOTE** position (see Fig. 39-2).

   Note: Access to the receiver requires removal of the surround.

2. Locate the ON/OFF switch on the left side of the surround (see Fig. 39-1). Switch it to the **ON (I)** position (see Fig. 39-3).

3. Locate the remote transmitter and press the ON/OFF button (see Fig. 39-4). The ignition sequence will begin.

   The remote receiver will emit an audible "beep"; then the igniter will begin to spark. After the pilot lights and is established, the valve will automatically open and the burner will light. The burner will initially light to full flame. Adjust it to the desired setting with the remote transmitter. See the REMOTE OPERATING INSTRUCTIONS section for details.

   Note: The ignition sequence will take approximately 3-5 seconds.

   WARNING: If the pilot fails to light, the system will "lockout." Press the ON/OFF button on the remote transmitter to turn OFF the system. Allow five (5) minutes for any gas in the unit to dissipate, then repeat step 3 above. IF YOU SMELL GAS, SEE STEP B AT THE BEGINNING OF THE LIGHTING INSTRUCTIONS.

If the pilot fails to light after several tries, turn all control/ remote system components to **OFF** and contact a qualified professional service technician.

Note: It is normal for condensation to form on the inside of the glass panel during start-up. This condensation will disappear within a few minutes.

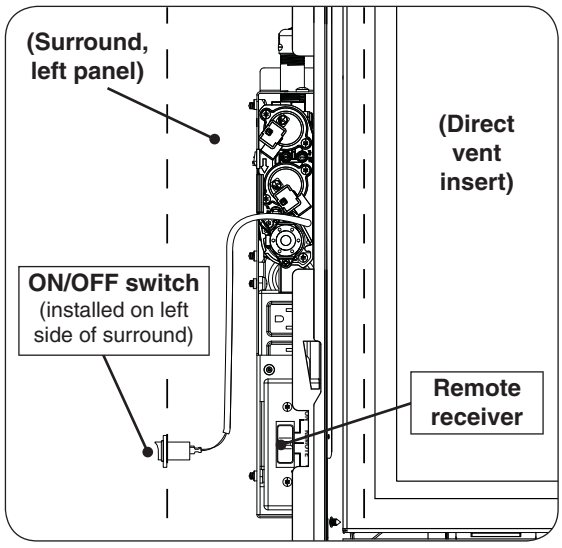


Fig. 39-1 Control box (left side, behind surround)

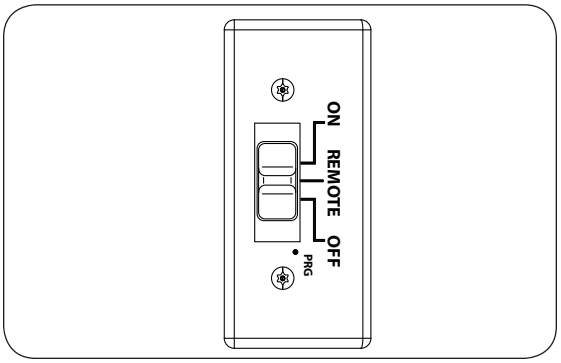


Fig. 39-2 Remote receiver detail

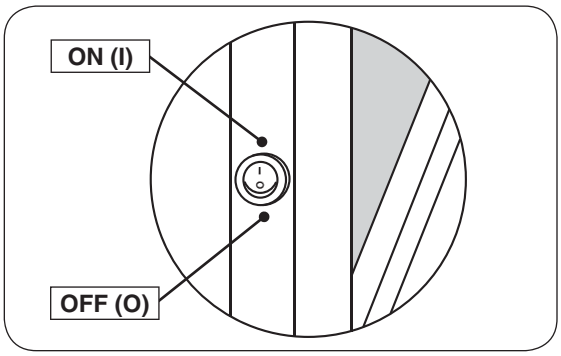


Fig. 39-3 ON/OFF switch detail

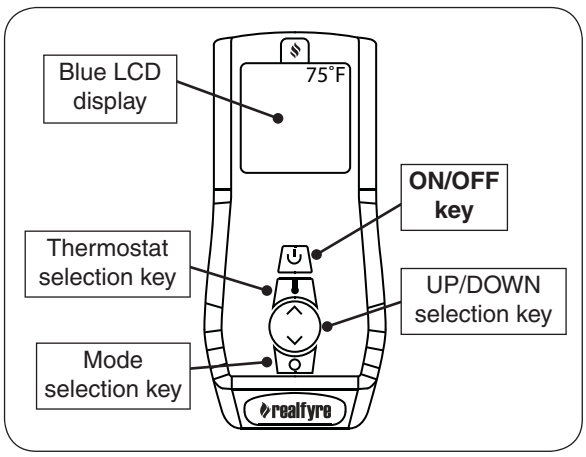


Fig. 39-4 Remote transmitter detail

DISTANCE DE L'ÉCLAIRAGE

ATTENTION: NE PAS essayer d'allumer la veilleuse manuellement. NE PAS faire fonctionner cet appareil sans le panneau de verre installé.

Note: Si la télécommande ne fonctionne pas, et des batteries avec un niveau de puissance adéquate sont installés, reportez-vous à la section SYNCHRONIZE REMOTE SYSTEM.

Note: Les étapes 1 et 2 ne peuvent être tenus si elle a déjà fait au cours d'un éclairage plus tôt.

1. Le boîtier de commande est sur le côté gauche de l'appareil. Placez le récepteur de télécommande du boîtier de commande (voir Fig. 40-1). Faites glisser le commutateur à 3 positions sur le récepteur à la position **REMOTE** (voir Fig. 40-2).

Note: L'accès au récepteur exige le retrait de la bordure.

2. Localisez le commutateur ON / OFF sur le côté gauche du cadre (voir Fig. 40-1). Le mettre en position **ON (I)** (voir Fig. 40-3).

3. Localisez la télécommande et appuyez sur le bouton ON/OFF (voir Fig. 40-4). La séquence d'allumage commencera.

   Le récepteur de la télécommande émettra un «bip» sonore, puis l'allumeur commence à susciter. Après les veilleuses et est établie, la vanne s'ouvre automatiquement et le brûleur s'allume. Le brûleur s'allume initialement à pleine flamme. Réglez-le à la position désirée avec la télécommande. Voir la section INSTRUCTIONS DE FONCTIONNEMENT A DISTANCE pour plus de détails.

Note: La séquence d'allumage prendra environ 3-5 secondes.

WARNING: Si le pilote ne s'allume pas, le système "lock-out." Appuyez sur le bouton ON/OFF sur la télécommande pour éteindre le système. Attendez cinq (5) minutes pour n'importe quel gaz dans l'unité à se dissiper, puis répéter l'étape 3 ci-dessus. S'IL YA UNE ODEUR DE GAZ, voir étape b AU DÉBUT DES INSTRUCTIONS D'ALLUMAGE.

Si le pilote ne s'allume pas après plusieurs essais, tournez tout contrôle / composants du système à distance sur OFF et contactez un technicien qualifié.

Note: Il est normal que la formation de condensation sur la face intérieure de la vitre lors du démarrage. Cette condensation dissapear en quelques minutes.

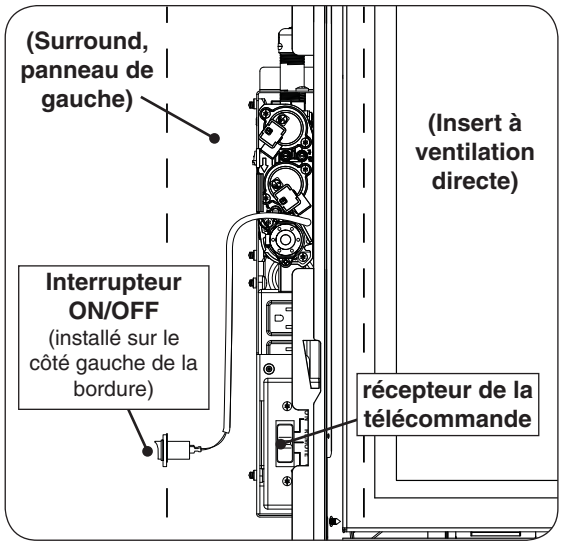

(Surround, panneau de gauche)
(Insert à ventilation directe)
Interrupteur ON/OFF (installé sur le côté gauche de la bordure)
récepteur de la télécommande

Fig. 40-1 Boîtier de commande (côté gauche, derrière surround)

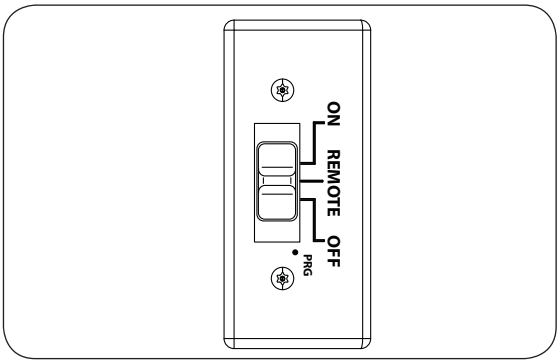


Fig. 40-2 Détail récepteur à distance

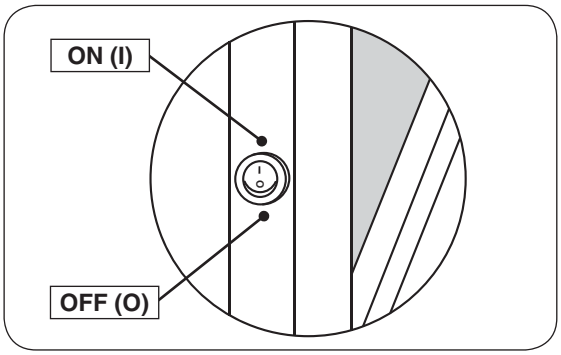


Fig. 40-3 ON/OFF commutateur de détail

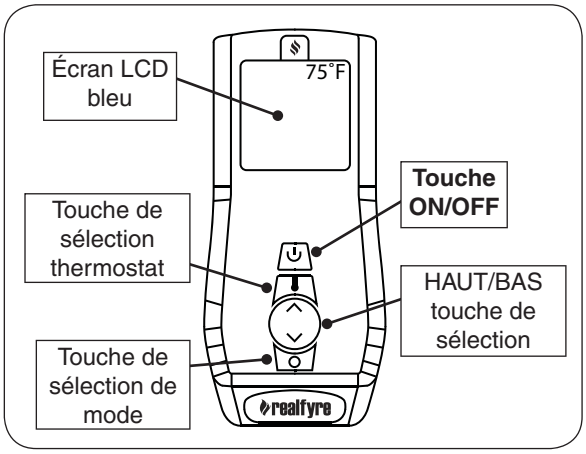


Fig. 40-4 Détail télécommande

MANUAL LIGHTING

If the remote transmitter is misplaced or lost, the appliance can be turned on manually as instructed below. Please note that the fan and accent light will not be accessible in manual mode. (Refer to remote lighting for full functionality.)

CAUTION: DO NOT attempt to light the pilot by hand. DO NOT operate this appliance without the glass panel installed.

Note: Step 1 may not be required if previously done during an earlier lighting.

1. The control box is on the left side of the unit. Locate the receiver on the control box (see Fig. 41-1). Slide the 3-position switch on the receiver to the **ON** position (see Fig. 41-2).

Note: Access to the receiver requires removal of the surround.

2. Locate the ON/OFF switch on the left side of the surround (see Fig. 41-1). Switch it to the **ON (I)** position (see Fig. 41-3). The ignition sequence will begin.

   The receiver will emit an audible "beep"; then the igniter will begin to spark. After the pilot lights and is established, the valve will automatically open and the burner will light. The burner will initially light to full flame.

Note: The ignition sequence will take approximately 3-5 seconds.

WARNING: If the pilot fails to light, the system will "lockout." Press the ON/OFF switch to OFF (O) to turn OFF the system. Allow five (5) minutes for any gas in the unit to dissipate, then repeat step 3 above. IF YOU SMELL GAS, SEE STEP B AT THE BEGINNING OF THE LIGHTING INSTRUCTIONS.

If the pilot fails to light after several tries, turn all control/ remote system components to **OFF** and contact a qualified professional service technician.

Note: It is normal for condensation to form on the inside of the glass panel during start-up. This condensation will disappear within a few minutes.

SHUTTING DOWN

- **For a remote shut down,** press the ON/OFF button on the remote transmitter.
- **For a manual shutdown (or if your remote is lost),** switch the ON/OFF switch on the left side of the surround to the **OFF (O)** position.
- **For a complete shutdown,** turn off the remote transmitter (if applicable), turn off the ON/OFF switch, and turn off the receiver.

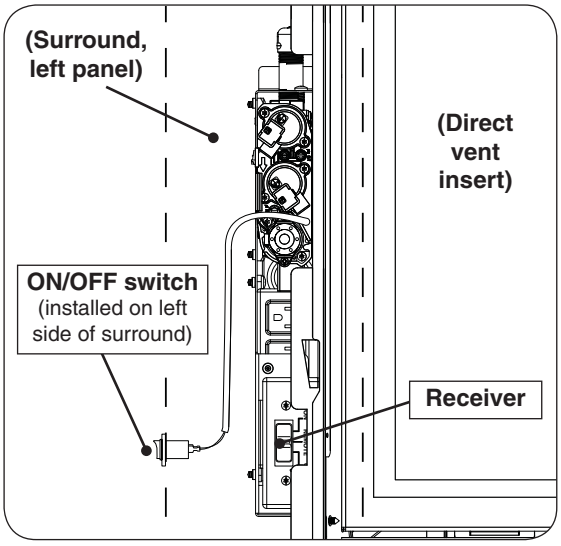


Fig. 41-1 Control box (left side, behind surround)

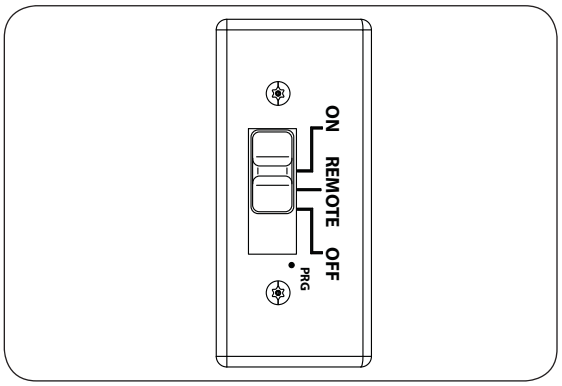


Fig. 41-2 Receiver detail

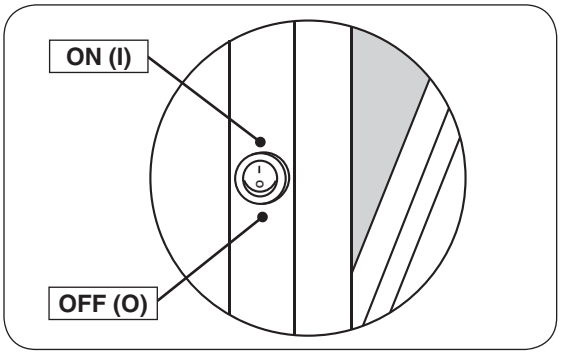


Fig. 41-3 ON/OFF switch detail

MANUEL ÉCLAIRAGE

Si la télécommande est égarée ou perdue, l'appareil peut être activé manuellement en suivant les instructions ci-dessous. S'il vous plaît noter que le ventilateur et la lumière d'accent ne sera pas accessible en mode manuel. (Reportez-vous à distance de l'éclairage pour une fonctionnalité complète.)

ATTENTION: NE PAS essayer d'allumer la veilleuse manuellement. NE PAS faire fonctionner cet appareil sans le panneau de verre installé.

Note: Étape 1 ne peut être exigé s'il a déjà été fait au cours d'un éclairage plus tôt.

1. Le boîtier de commande est sur le côté gauche de l'appareil. Placez le récepteur sur le boîtier de commande (voir Fig. 42-1). Faites glisser le commutateur à 3 positions sur le récepteur à la position **ON** (voir Fig. 42-2).

Note: L'accès au récepteur exige le retrait de la bordure.

2. Localisez le commutateur ON/OFF sur le côté gauche du cadre (voir Fig. 42-1). Le mettre en position **ON (I)** (voir Fig. 42-3). La séquence d'allumage commencera.

   Le récepteur émettra un "bip" sonore, puis l'allumeur commence à susciter. Après les veilleuses et est établie, la vanne s'ouvre automatiquement et le brûleur s'allume. Le brûleur s'allume initialement à pleine flamme.

Note: La séquence d'allumage prendra environ 3-5 secondes.

AVERTISSEMENT: **Si le pilote ne s'allume pas, le système "lock-out." Appuyez sur le bouton ON/OFF sur OFF (O) pour désactiver le système. Attendez cinq (5) minutes pour n'importe quel gaz dans l'unité à se dissiper, puis répéter l'étape 3 ci-dessus. S'IL YA UNE ODEUR DE GAZ, voir étape b AU DÉBUT DES INSTRUCTIONS D'ALLUMAGE.**

Si le pilote ne s'allume pas après plusieurs essais, tournez tout contrôle / composants du système à distance sur **OFF** et contactez un technicien qualifié.

Note: Il est normal que la formation de condensation sur la face intérieure de la vitre lors du démarrage. Cette condensation disparaît en quelques minutes.

ARRÊTER

- **Pour un arrêt à distance**, appuyez sur le bouton ON/OFF sur la télécommande.
- **Pour un arrêt manuel (ou si votre télécommande est perdue)**, mettez l'interrupteur ON/OFF sur le côté gauche de la bordure à la position **OFF (O)**.
- **Pour un arrêt complet**, éteignez l'émetteur à distance (le cas échéant), éteindre l'interrupteur ON/OFF et éteignez le récepteur.

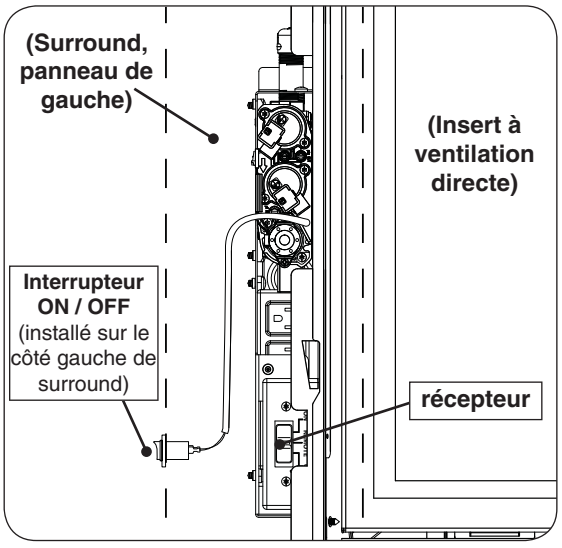

(Surround, panneau de gauche)
(Insert à ventilation directe)
Interrupteur ON / OFF (installé sur le côté gauche de surround)
récepteur

Fig. 42-1 Boîtier de commande (côté gauche, derrière surround)

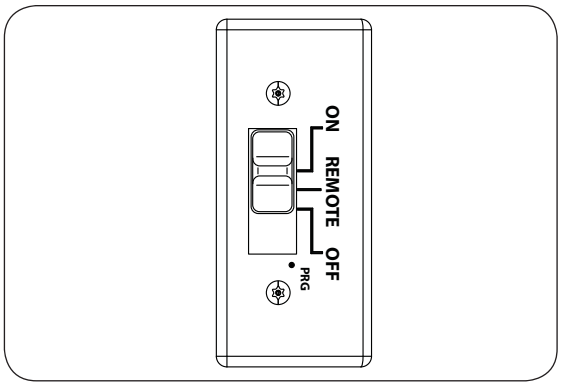


Fig. 42-2 récepteur détail

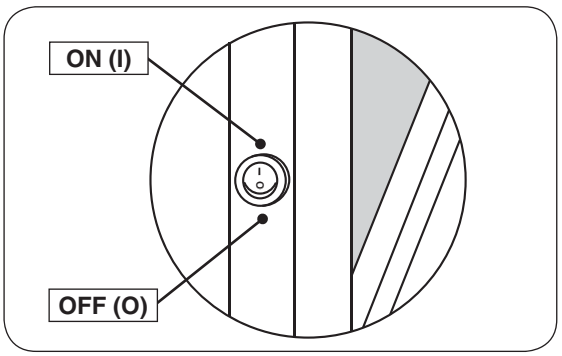


Fig. 42-3 ON/OFF commutateur de détail

ORIENTATION

Prior to remote transmitter use, light the appliance per the REMOTE LIGHTING section. Familiarize yourself with the transmitter keys and LCD display, as illustrated in Fig. 43-1 and Fig. 43-2.

Identify the four transmitter keys:

- **ON/OFF KEY:** This key turns the system ON or OFF. When this key is pressed to turn the system OFF, the pilot light will stay ON if the standing pilot toggle switch is in the ON position.
- **THERMOSTAT KEY:** This key, when the system is on, will allow the selection of three modes: Manual Operation, Normal Thermostat and Smart Thermostat.
- **UP/DOWN KEY:** This key, when the system is on, is used to increase/decrease the Set Point Temperatures, Flame Height, and Fan Speed. It also will toggle the Accent Light and Secondary Burner (if applicable) ON/OFF.
- **MODE SELECTION KEY:** This key, when the system is on, is used to toggle between the various icons on the LCD display (that represent the remote functions): Set Temperature, Flame Height, Fan, Accent Light, and Secondary Burner.

The display will show all active icons on the screen. The remote receiver (in the control box) will "beep" once every time a transmitter key is pressed, signaling that the command has been received.

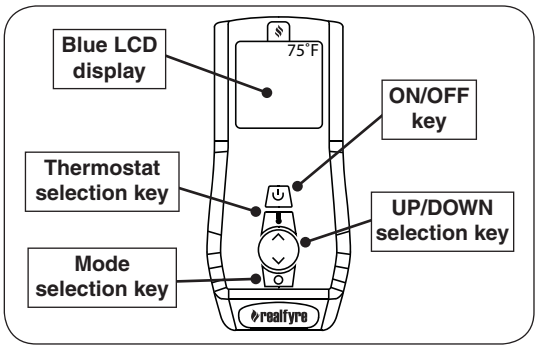


Fig. 43-1 Remote transmitter detail

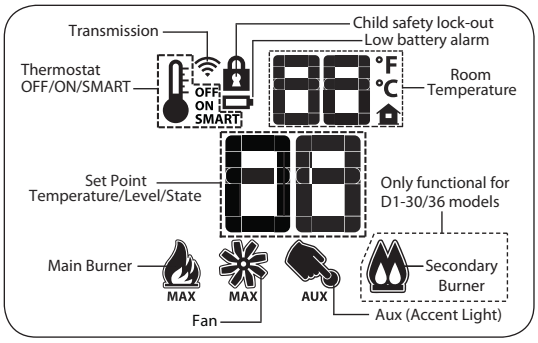


Fig. 43-2 LCD display detail

THERMOSTAT

Note: Locating the remote transmitter too close or too far from the unit will affect thermostat operation.

When the system is on, pressing the Thermostat key will switch between three modes:

- **Manual Mode (Fig. 43-3):** In this mode, the room temperature is ignored and the fireplace can be turned on indefinitely. The room temperature rise has no effect on this mode. All other functions (fan speed, flame height, secondary burner ON/OFF, and accent light ON/OFF controls) will be manually controllable.
- **Normal Thermostat (Fig. 43-4):** In this mode, the fireplace will remain functioning until the room temperature increases 1°F above the Set Point Temperature. Refer to the following SET TEMPERATURE section for details on adjusting the set point temperature. The flame height can be adjusted while the fireplace is functioning. The secondary burner and accent light can be turned ON/OFF at any time after startup.
- **Smart Thermostat (Fig. 43-5):** In this mode, all other functions except the flame height adjustment are allowed. Manual flame height adjustment is not allowed in this mode. The smart thermostat function adjusts the flame height in accordance to the difference between the set point temperature and the actual room temperature. As the room temperature gets closer to the set point temperature, the smart function automatically modulates the flame down.

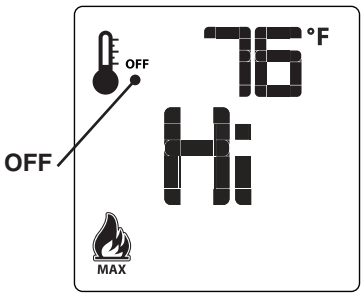


Fig. 43-3 Manual mode

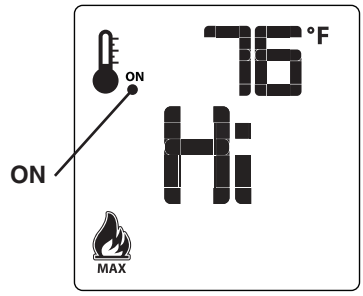


Fig. 43-4 Normal thermostat

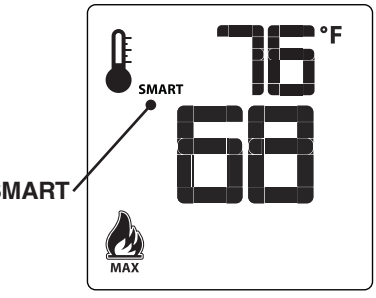


Fig. 43-5 Smart thermostat

ORIENTATION

Avant la première utilisation télécommande, allumez l'appareil pour la section d'éclairage à distance. Familiarisez-vous avec les touches de l'émetteur et l'écran LCD, comme illustré dans la Fig. 44-1 Et Fig. 44-2.

Identifier les touches de l'émetteur quatre:

- **ON/OFF**: Cette touche allume le système ou OFF. Lorsque cette touche est enfoncée pour mettre le système hors tension, le voyant reste allumé lorsque le commutateur à bascule veilleuse est en position ON.
- **KEY THERMOSTAT**: Cette touche, lorsque le système est sous tension, permettra à la sélection de trois modes: mode manuel, thermostat normal et thermostat intelligent.
- **HAUT/BAS**: Cette touche, lorsque le système est activé, est utilisé pour augmenter/diminuer les températures de consigne Point, hauteur des flammes, et la vitesse du ventilateur. Il sera également basculer l'éclairage d'accentuation et brûleur secondaire (le cas échéant) ON/OFF.
- **TOUCHE DE SÉLECTION MODE**: Cette touche, lorsque le système est activé, est utilisé pour basculer entre les différentes icônes sur l'écran LCD (qui représentent les fonctions à distance): réglage de température, la hauteur des flammes, ventilateur, lumière d'accent, et le brûleur secondaire.

L'écran affichera toutes les icônes actives sur l'écran. Le récepteur à distance (dans le boîtier de commande) émet un "bip" une fois à chaque fois une touche de l'émetteur, indiquant que la commande a été reçue.

THERMOSTAT

Note: Localisation de la télécommande trop près ou trop loin de l'unité aura une incidence sur le fonctionnement du thermostat.

Lorsque le système est allumé, appuyer sur la touche thermostat basculer entre trois modes:

- **Mode manuel (Fig. 44-3):** Dans ce mode, la température ambiante est ignorée et la cheminée peut être activé indéfiniment. L'élévation de la température ambiante n'a aucun effet sur ce mode. Toutes les autres fonctions (vitesse du ventilateur, hauteur de la flamme, le brûleur secondaire ON/OFF, et la lumière d'accent sur les contrôles/OFF) sera contrôlable manuellement.
- **Thermostat normale (fig. 44-4):** Dans ce mode, le foyer restera fonctionnement jusqu'à la température ambiante augmente de 1° C au dessus de la température de consigne. Reportez-vous à la section suivante SET TEMPERATURE pour plus de détails sur le réglage de la température de consigne. La hauteur des flammes peut être réglée lorsque le foyer fonctionne. Le brûleur secondaire et un éclairage d'accentuation peut être activée/désactivée à tout moment après le démarrage.
- **Thermostat intelligent (Fig. 44-5):** Dans ce mode, toutes les autres fonctions à l'exception du réglage de la hauteur de flamme sont autorisés. Réglage manuel de la hauteur de la flamme n'est pas autorisé dans ce mode. La fonction thermostat intelligent ajuste la hauteur de la flamme conformément à la différence entre la température de consigne et la température réelle de la pièce. Que la température ambiante se rapproche de la température de consigne, la fonction intelligente module automatiquement la flamme.

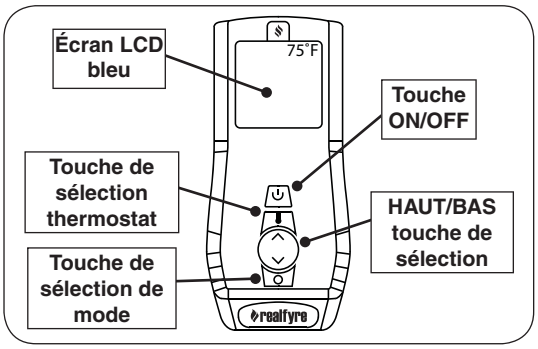


Fig. 44-1 Détail télécommande

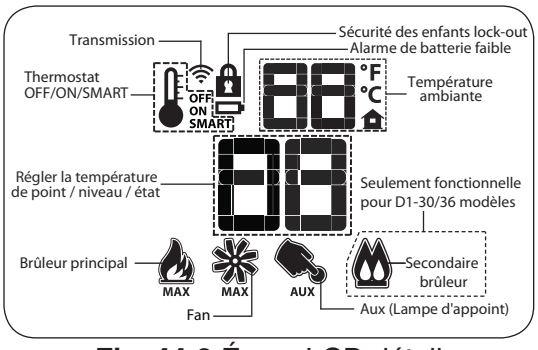


Fig. 44-2 Écran LCD détail

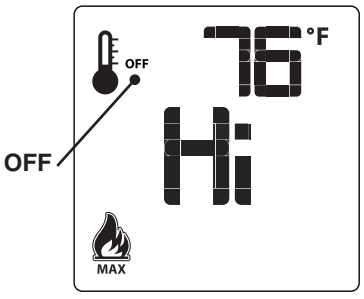


Fig. 44-3 Le mode manuel

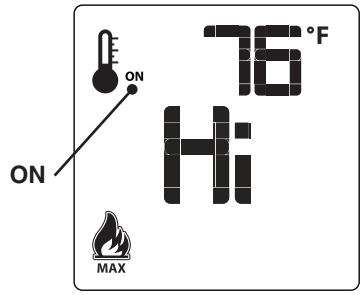


Fig. 44-4 thermostat normal

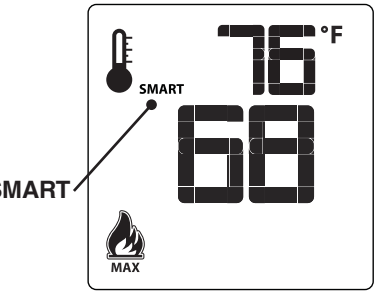


Fig. 44-5 thermostat intelligent

SET TEMPERATURE (Thermostat Modes Only)

Press the Mode key until the large Set Temperature is displayed (center of screen). See Fig. 45-1. Pressing the Up/Down key once in this mode will increase/decrease the set temperature. Note that the smaller temperature display in the top right corner is the room temperature according to the remote transmitter.

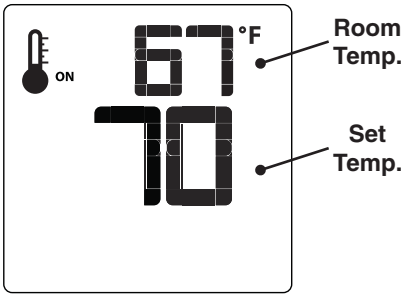


Fig. 45-1 Set temperature detail

FLAME HEIGHT

Six flame height levels are available. Press the Mode key to index to the Flame Height icon. See Fig. 45-2. Pressing the Up/Down key once will increase/decrease the flame height by 1 of 6 increments. In Manual Mode, if the flame height is at Level 1 and the Down button is pressed, all burners will turn off. In "Intermittent Pilot" mode, the pilot light will also extinguish. In Standing Pilot Mode, the pilot light will remain ON.

Note: In Thermostat mode, you will be able to reduce the flame height down to the Level 1 setting but you will not be able to turn the burner off. In Smart Thermostat mode, the flame height function is not available for manual adjustment, as the flame height is regulated automatically.

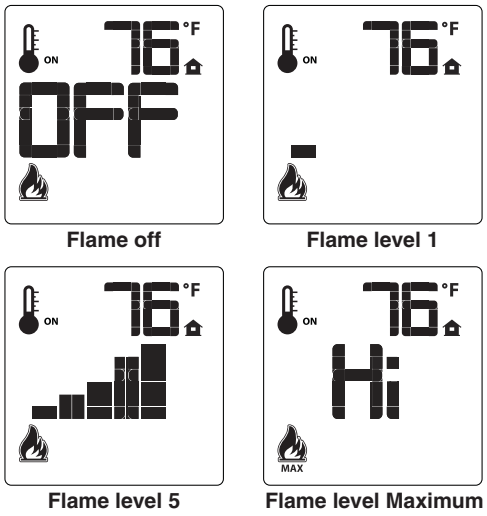


Fig. 45-2 Flame Height detail

FAN

The fan speed can be adjusted through six speeds and off. Press the Mode key to index to the Fan icon. See Fig. 45-3. Use the UP/Down key to turn on, off or adjust the fan speed.

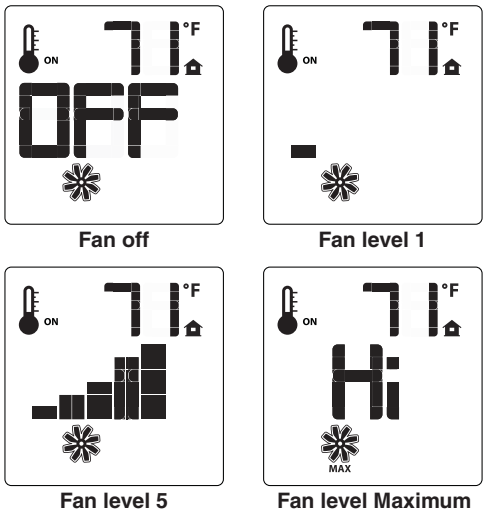


Fig. 45-3 Fan detail

ACCENT LIGHT (AUX)

The accent light can be turned on or off. Press the Mode key to index to the Aux icon. See Fig. 45-4. Pressing the Up/Down key will turn the accent light on/off.

ACCENT LIGHT ONLY (NO FLAME)

The accent light can be used independently (with the burners off). Turn on the light as instructed above. In Manual Mode, press the Mode key to index to the Flame Height icon. Press the Down key until the burners turn off. (When the flame height is at Level 1 and the Down button is pressed, all burners will turn off).

Note: This option is only available in Manual Mode and will not be available in the Thermostat Modes.

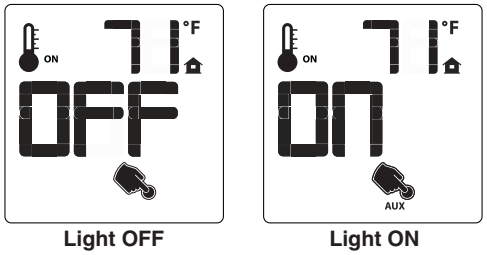


Fig. 45-4 Accent light detail

TEMPÉRATURE (modes du thermostat uniquement)

Appuyez sur la touche Mode jusqu'à ce que la température réglée est affichée grande (au centre de l'écran). Voir Fig. 46-1. En appuyant sur la touche Haut / Bas fois dans ce mode pour augmenter / diminuer la température de consigne. Notez que l'affichage de température plus faible dans le coin en haut à droite est la température ambiante en fonction de la télécommande.

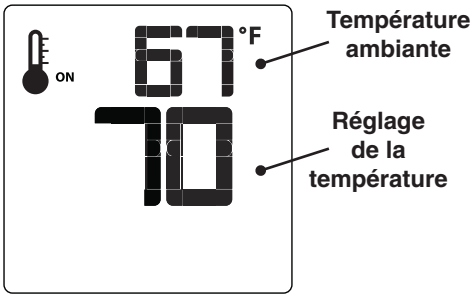


Fig. 46-1 Réglez la température de détails

HAUTEUR DE LA FLAMME

Six niveaux de hauteur de flamme sont disponibles. Appuyez sur la touche Mode pour l'indice de l'icône de la hauteur des flammes. Voir Fig. 46-2. En appuyant sur la touche Haut/Bas fois pour augmenter/diminuer la hauteur de la flamme par 1 de 6 incréments. En mode manuel, si la hauteur de la flamme est au niveau 1 et la touche Bas est pressée, tous les brûleurs s'éteignent. Dans "Pilot intermittent", le voyant lumineux s'éteint également. En mode pilote permanent, le voyant restera allumé.

Note: En mode thermostat, vous serez en mesure de réduire la hauteur de la flamme vers le niveau 1 paramètre, mais vous ne serez pas en mesure d'éteindre le brûleur. En mode thermostat intelligent, la fonction de la hauteur de flamme n'est pas disponible pour le réglage manuel, comme la hauteur de la flamme est réglée automatiquement.

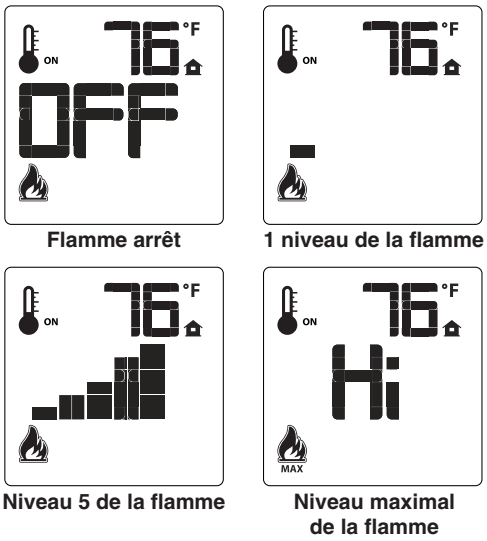


Fig. 46-2 Hauteur de la flamme détail

VENTILATEUR

La vitesse du ventilateur peut être réglé au moyen de six vitesses et en dehors. Appuyez sur la touche Mode pour l'indice de l'icône du ventilateur. Voir Fig. 46-3. Utilisez la touche Haut/Bas pour allumer, éteindre ou régler la vitesse du ventilateur.

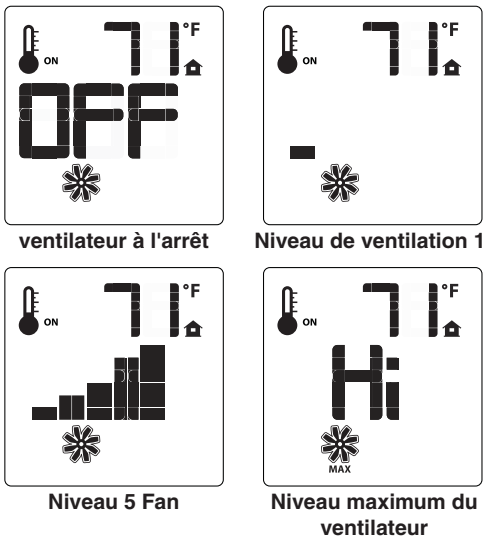


Fig. 46-3 Fan détail

ÉCLAIRAGE D'ACCENTUATION (AUX)

L'éclairage d'accentuation peut être activée ou désactivée. Appuyez sur la touche Mode pour l'indice de l'icône Aux. Voir Fig. 46-4. En appuyant sur la touche Haut/Bas vont allumer la lumière accent marche/arrêt.

ÉCLAIRAGE D'ACCENTUATION UNIQUEMENT (pas de flamme)

L'éclairage d'accentuation peut être utilisé indépendamment (avec l'arrêt des brûleurs). Allumez la lumière, comme indiqué ci-dessus. En mode manuel, appuyez sur la touche Mode pour l'indice de l'icône de la hauteur des flammes. Appuyez sur la touche Bas jusqu'à ce que les brûleurs s'éteignent. (Lorsque la hauteur de la flamme est au niveau 1 et la touche Bas est pressée, tous les brûleurs s'éteignent).

Note: Cette option est disponible uniquement en mode manuel et ne sera pas disponible dans les modes du thermostat.

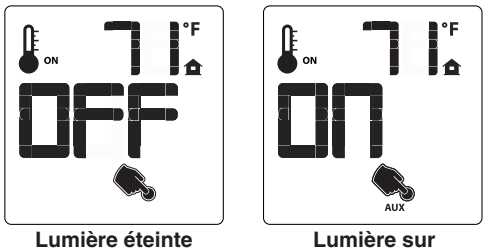
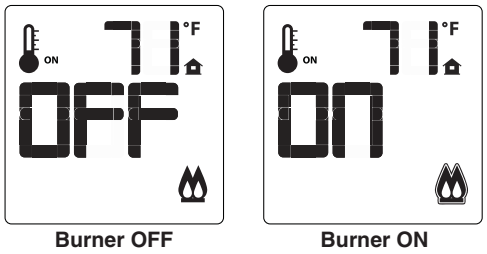


Fig. 46-4 Détail un éclairage d'accentuation

SECONDARY (REAR) BURNER

The secondary (rear) burner can be turned on or off. Press the Mode key to index to the Secondary Burner icon. See Fig. 47-1. Pressing the Up/Down key will turn the secondary burner on/off. The flame level will not change when you turn the secondary burner on or off. (The flame level can only be changed in the Flame Height mode.)

Note: This function is not applicable for D1-25 models as they only have one burner. Although the remote will still display the function, it will have no effect on D1-25 operation.

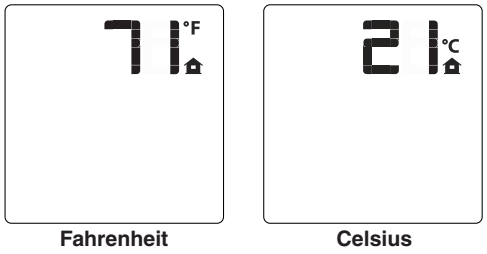


Burner OFF Burner ON

Fig. 47-1 Secondary burner detail

TEMPERATURE INDICATOR (˚F or ˚C)

The temperature can be displayed in ˚F or ˚C. With the appliance and remote transmitter off, simultaneously press the Mode key and Thermostat key. The LCD display will alternate between °F and °C. See Fig. 47-2.



Fahrenheit Celsius

Fig. 47-2 Temperature indicator detail

KEY LOCK

To prevent unsafe operation of the appliance, a Key Lock function is provided with this remote control system. To activate the key lock function, first press (and hold) the Up key, then (while still holding) press the Mode key. A lock icon will appear on the screen (see Fig. 47-3). To deactivate, repeat this process.

During key lock mode, none of the keys will function. You must deactivate the system before you can use the remote transmitter.

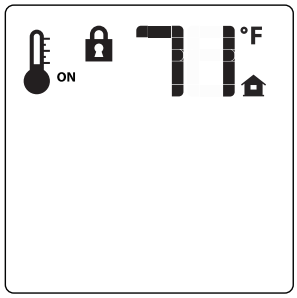


Fig. 47-3 Key lock mode

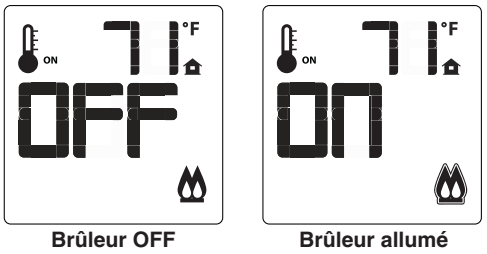
OPERATING DURING A POWER OUTAGE

If the AC power is interrupted during a power outage, this system utilizes the batteries (installed in the remote receiver) as back-up batteries. During the power outage the appliance will function, with the exception of the Fan and Accent Light features (which are dependent on 110VAC power).

SECONDAIRE (REAR) BRÛLEUR

Le secondaire (arrière) du brûleur peut être allumé ou éteint. Appuyez sur la touche Mode pour l'indice de l'icône du brûleur secondaire. Voir Fig. 48-1. En appuyant sur la touche Haut/Bas vont allumer le brûleur secondaire on / off. La hauteur des flammes ne changera pas lorsque vous allumez le brûleur secondaire ou désactiver. (La hauteur des flammes ne peuvent être modifiés dans le mode de la hauteur des flammes.)

Note: Cette fonction n'est pas applicable pour D1-25 modèles car ils ont un seul brûleur. Bien que la télécommande ne fait toujours afficher la fonction , il n'aura aucun effet sur la D1-25 fonctionnement.

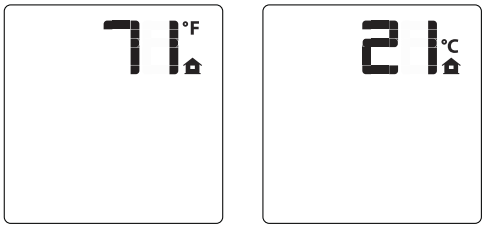


Brûleur OFF | Brûleur allumé

Fig. 48-1 Détail brûleur secondaire

INDICATEUR DE TEMPÉRATURE (˚F or ˚C)

La température peut être affichée en ˚F ou ˚C. Avec l'appareil et l'émetteur hors tension à distance, appuyez simultanément sur la touche Mode et la clé du thermostat. L'écran LCD alterne entre °F et °C. Voir Fig. 48-2.



Fahrenheit | Celsius

Fig. 48-2 Détail indicateur de température

KEY LOCK

Pour éviter un fonctionnement dangereux de l'appareil, une fonction de verrouillage des touches est fourni avec ce système de contrôle à distance. Pour activer la fonction de verrouillage des touches, appuyez d'abord sur (et maintenez) le bouton Monter, puis (tout en tenant toujours) appuyer sur la touche Mode. Une icône de verrouillage apparaît sur l'écran (voir Fig. 48-3). Pour le désactiver, répétez ce processus.

En mode de verrouillage des touches, aucune des touches fonctionnent. Vous devez désactiver le système avant de pouvoir utiliser la télécommande.

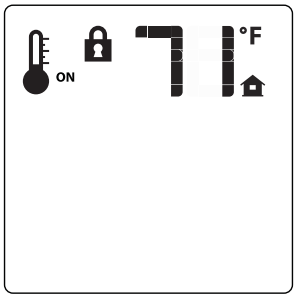


Fig. 48-3 Mode de verrouillage des touches

FONCTIONNEMENT PENDANT UNE PANNE DE COURANT

Si l'alimentation est interrompue pendant une panne de courant, ce système utilise des piles (installées dans le récepteur distant) back-up batteries. Lors de la panne de courant l'appareil fonctionnera, à l'exception du ventilateur et des caractéristiques de lumière d'appoint (qui dépendent de la puissance 110VAC).

SERVICING AND CLEANING

The appliance, the fireplace, and the installation must be inspected annually. The appliance requires annual maintenance by a qualified professional service technician. Refer to these instructions for details. Performing these procedures will ensure proper operation, appearance, and safety.

WARNING: Turn off the gas and electrical power (when instructed) to the fireplace and allow it to completely cool prior to servicing or cleaning of the appliance.

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux.

- Wear appropriate gloves and safety glasses during any servicing or cleaning. When handling the surround and screen components, and glass panel, be sure to wear clean non-marking gloves to ensure a clean finish and avoid any fingerprints.
- DO NOT use substitute materials when replacing any components of the appliance.
- Verify proper operation after servicing.
  S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.
- DO NOT clean when hot.

ANNUAL CLEAN / INSPECTION

The following should only be performed annually by a qualified professional service technician:

1. When the unit is cool, remove the screen and surround/eyebrow pieces from the appliance **(wear gloves)**. Be sure to first disconnect the ON/OFF switch located on the left side-panel of the surround.
2. Remove the glass panel (wear gloves). Inspect it thoroughly for any damage to the glass, gasket, or overall assembly. Replace if necessary. Clean the glass to remove any build-up (which is a by-product of combustion). Reference the GLASS PANEL REMOVAL AND MAINTENANCE section for details.
3. **Carefully** remove the logs and glowing embers. **Use latex gloves and handle with care!** Inspect the logs. Chalking on the logs is normal. If excessive soot is present, reference the AIR SHUTTER ADJUSTMENT section, and ensure proper log placement when replacing. **Do Not** attempt to brush or vacuum the logs.

   Store on a soft surface and in a safe location for future reinstallation.
4. Inspect the burner and pilot assembly for any debris/blockages. Vacuum the firebox floor of the appliance, then use a compressed air duster (commonly available at a office supply store) to blow through all of the burner ports and the pilot assembly area.
5. Remove the insert from the fireplace and remove the rear panel (fan assembly attached). Vacuum the fan assembly. See the FAN ASSEMBLY CLEANING section for details. Re-install fan assembly and insert.
6. Check that the control box (left side of unit) and all appliance openings are clean and clear of any debris/blockages. The flow of combustion and ventilation air must not be obstructed.
7. Inspect the condition of any wiring for melting or damage. Refer to the wiring diagram in the SPECIFICATIONS AND DIMENSIONS section of this manual for overall orientation.
8. Check that the area around the appliance is kept clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
9. Examine the entire vent system and termination for signs of blockage, obstruction, or dislocation of vent components. Reference the INSTALLATION section for re-installation details if required.
10. **Carefully** replace the logs, embers, glass panel, screen, and surround/eyebrow pieces as instructed in the INSTALLATION section of this manual.

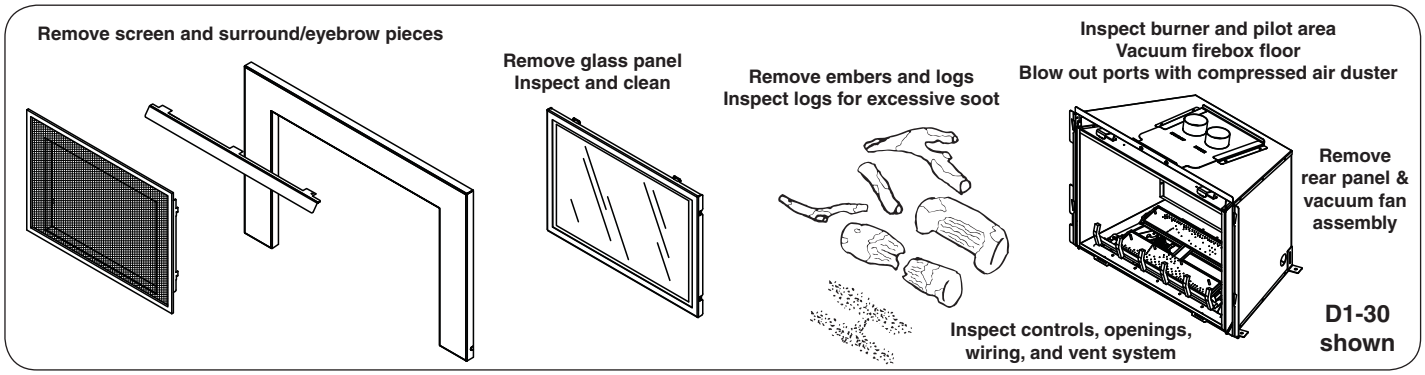


Fig. 49-1 Annual clean / inspection firebox overview

GLASS PANEL REMOVAL AND MAINTENANCE

WARNING: DO NOT operate the appliance with the glass panel removed, cracked or broken. Replacement of the glass panel must be done by a qualified professional service technician.

Ne pas utiliser l'appareil si le panneau frontal en verre n'est pas en place, est craqué ou brisé. Confiez le remplacement du panneau à un technicien agréé.

- When handling the glass panel, be sure to wear clean non-marking gloves to ensure a clean finish and avoid any fingerprints.
- The glass panel of this appliance must only be replaced as a complete assembly provided by the manufacturer. DO NOT replace the glass separately.
- DO NOT abuse the glass panel by striking it or slamming it shut. Handle with extreme care!
- DO NOT use abrasive cleaners on the glass.
- DO NOT touch the glass panel when HOT!

To remove the glass panel:

Pull the spring latches (found on the top of the unit) outward and up over the two tabs found on the top of the panel. Then slowly rotate the panel downward and out of the tabs found on the bottom of the unit. See Fig. 50-1, "A-C".

To replace the glass panel, reference the INSTALLATION, GLASS PANEL section. *When inserting ensure that no media, objects, or debris exist along the bottom of the unit!*

To clean the glass panel:

Clean the glass periodically to remove any build-ups caused by lint, dust, and/or combustion. It is recommended that the glass be cleaned 2-3 times during each heating season, depending on use and environment conditions.

Clean using a non-abrasive glass cleaner and a clean lint-free cloth.

Contact your local dealer if a glass panel replacement is required.

PILOT BURNER CHECK/ADJUSTMENT

The following should only be performed annually by a qualified professional service technician. Service requires the gas and electrical power to be on. Reference the ANNUAL CLEAN/ INSPECTION section for details on accessing the pilot.

Check the pilot system for proper flame size and appearance (see Fig. 50-2). The pilot adjustment screw is located on the center of the gas valve (see Fig. 50-3). Using a small flat head screwdriver, adjust the pilot screw to properly size the flames. Turning the screw clockwise will lower the flames, and turning it counterclockwise will raise them. Be careful not to back the screw out of its threads.

The 3 flames should be of large and equal size. The center flame should directly hit, fully engulf, and pass the flame sensor.

Test at all connections for leaks using an appropriate soapy water solution. Be sure to properly re-install all appliance components.

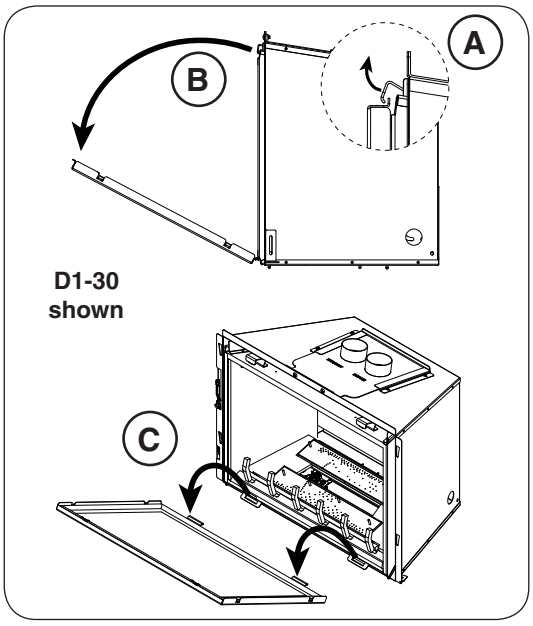


Fig. 50-1 Remove glass panel to clean

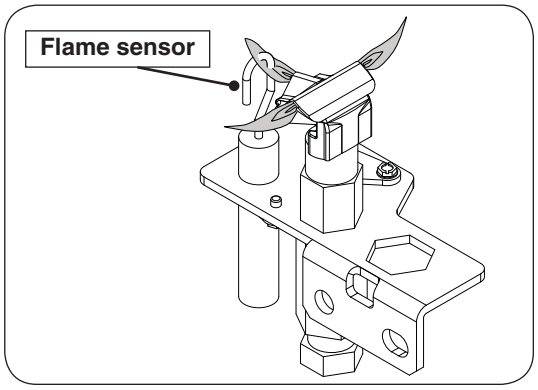


Fig. 50-2 Proper pilot flame appearance

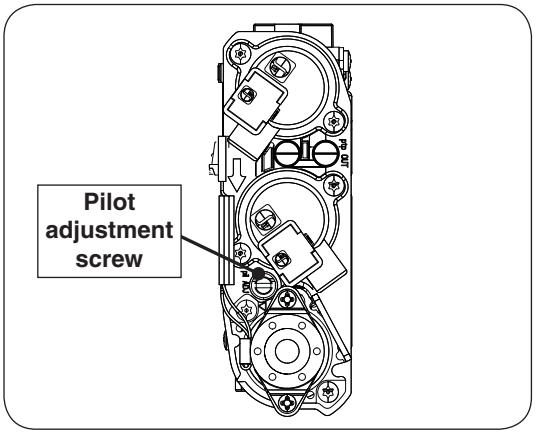


Fig. 50-3 Pilot screw on valve location

AIR SHUTTER ADJUSTMENT

The following should only be performed, if required, by a qualified professional service technician. Service requires the gas and electrical power to be on.

The air shutters regulate the amount of primary air the burners receive, which affects flame appearance. The air shutters are preset at the factory based upon the gas the appliance is designed to burn. However, certain conditions may require air shutter field adjustment for proper combustion and flame presentation.

Air Shutter Factory Settings	Nat.	L.P.
D1-25: Burner	1/4" open	9/16" open
D1-30: Front burner	Fully open	Fully open
D1-30: Rear burner	1/8" open	5/16" open
D1-36: Front burner	Fully open	Fully open
D1-36: Rear burner	1/4" open	1/2" open

The appliance should burn for approximately 15 minutes. By this time, the flames should be blue at the base and a combination of blue/yellow at the body and tips. Adjust the air shutter as needed.

CAUTION: Excessive sooting will occur when the air shutter(s) are closed too much. Lifting of the flame from the burner will occur when the air shutter(s) are open too much. Adjust accordingly.

Air Shutter Adjustment Handle

D1-25 burners, and D1-30/36 rear burners are equipped with a wire handle to easily adjust the air shutter.

The air shutter adjustment handle is located at the bottom front of the unit. To gain access, remove the fine mesh barrier screen. If a 4 piece surround is installed, it must be removed.

Note: 3 piece surrounds do not require removal.

1. Ignite the burner.
2. Using needle nose pliers, gently grab the adjustment handle, and push/pull the wire as needed. Pull to open, push to close. See Fig. 51-1.
   More air will result in shorter flames and less color, less air will result in bigger flames and more color.

Note: Make minimal adjustments. Very small changes result in major changes in flame appearance.

3. Observe the flames. Repeat the adjustment process until the proper flame is achieved.
4. Be sure to properly re-install all appliance components.

Air Shutter Adjustment via Burner Removal

Note: It is not recommended to adjust D1-30/36 front burners (to maintain proper operation).

1. Completely shut down the burner. Allow the appliance to completely cool.

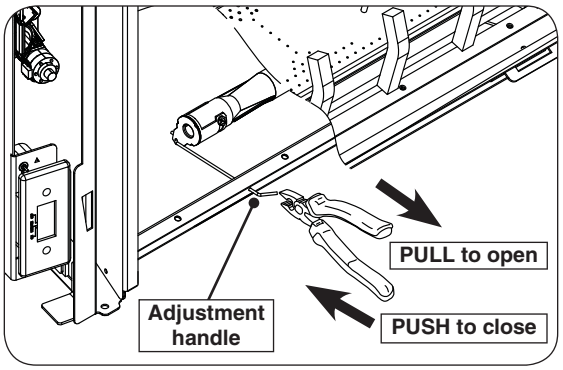


Fig. 51-1 Air shutter adjustment handle

Fig. 51-2 Proper flame appearance

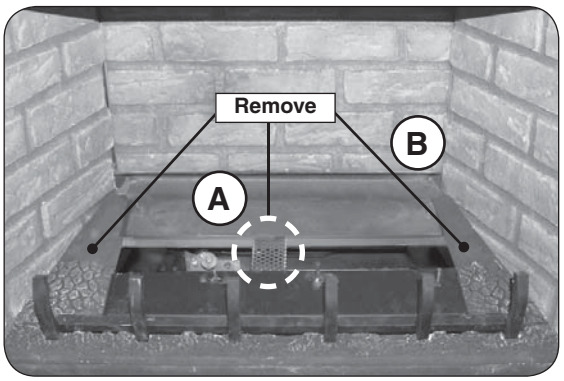


Fig. 51-3 Remove screen & floor panels

2. An air shutter is located beneath each burner. Reference the ANNUAL CLEAN/INSPECTION section for details on accessing the front/rear burner. Rear burner shown here.
3. Remove the ember screen (if applicable) and left and right floor panels. See figure on previous page, "A" and "B".
4. Remove the grate. Then remove the 2 hex screws found on the ends of the rear burner using a 5/16" nut driver. See Fig. 52-1, "C" and "D".
5. Remove burner by sliding it to the right, so that the venturi tube clears the orifice, then fully out. See Fig. 52-2, "E".

Note: When removing a burner with a wire adjustment handle, be sure the handle comes out with the burner.

6. Use a 1/4" nut driver to loosen the air shutter screw, and adjust as needed. Be certain to re-tighten the screw when done. See Fig. 52-3.

   More air will result in shorter flames and less color, less air will result in bigger flames and more color.

Note: Make adjustments in 1/8" increments. Very small changes result in major changes in flame appearance.

Note: Do not completely tighten the screw on burners equipped with a wire adjustment handle, as doing so will prevent the wire handle from functioning.

7. Repeat this process for the front burner, if applicable/ required. Then properly replace the burner(s).

Note: When replacing a burner with a wire adjustment handle, you will need to first place the wire into the hole found on the bottom front of the unit, then rotate the burner into place (see Fig. 52-4).

8. Ignite the burner and observe the flames. If required, repeat the adjustment process until the proper flame is achieved.
9. Be sure to properly re-install all appliance components.

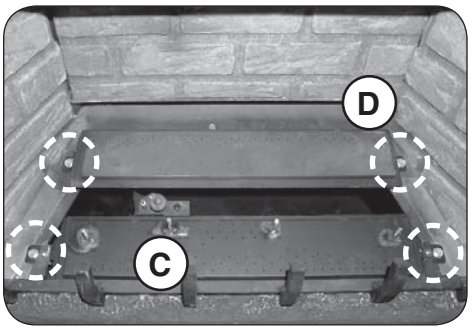


Fig. 52-1 Remove grate & burner hex screws

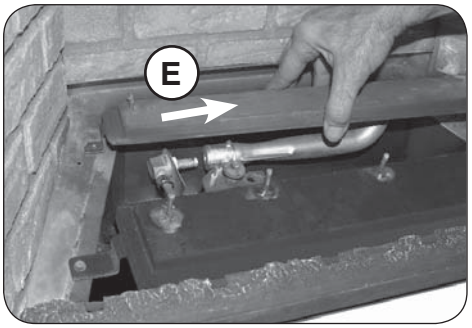


Fig. 52-2 Remove burner

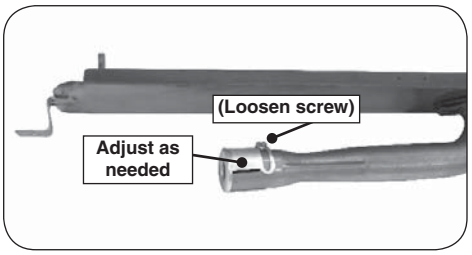


Fig. 52-3 Adjust air shutter

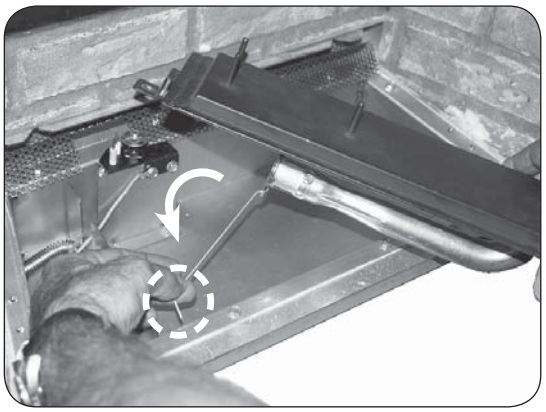


Fig. 52-4 Replace burner & wire handle (select burners)

Fig. 52-5 Proper flame appearance

BATTERY REPLACEMENT

Ensure all control/remote system components are in the **OFF** position prior to any battery replacements.

Note: Remote system syncing may be required after any battery replacements. See section below if needed.

Remote transmitter:

The remote transmitter requires 3 AAA batteries to operate. Locate the transmitter, remove the lid (found on rear), and properly insert new batteries as marked. Re-secure the lid. See Fig. 53-1.

Remote receiver:

The remote receiver requires 4 AA batteries to operate. Turn off gas to the unit. Locate the receiver on the control box, which is located on the left side of the unit (see Fig. 53-2).

Note: Access to the receiver requires removal of the screen and surround/eyebrow pieces.

Slide the 3-position switch on the receiver to the **ON** position, then remove the switch. Unfasten the plastic plate using a Phillips screwdriver. See Fig. 53-3. Remove the battery lid (push in tabs) and properly insert new batteries as marked (see Fig. 53-4). Re-secure the lid, the plate, and the switch. Be sure to properly re-install all appliance components.

SYNCHRONIZE REMOTE SYSTEM

The remote system is synchronized at the manufacturer. However, should the remote transmitter and receiver require to be synced, follow the procedure below.

1. Locate the receiver on the control box, which is located on the left side of the unit (see Fig. 53-2).

Note: Access to the receiver requires removal of the screen and surround/eyebrow pieces.

2. Slide the 3-position switch on the receiver to the **REMOTE** position.
3. Locate the **PRG** key on the receiver (reference Fig. 53-3). Use the tip of a pen or a wire clip to push the **PRG** button. The receiver will beep 3 times indicating that it is ready to synchronize with the remote transmitter.
4. Push the ON/OFF key on the remote transmitter. The receiver will beep 4 times to indicate that the transmitter's command is accepted and set to the particular code of the transmitter. The system is now initialized.
5. Be sure to properly re-install all appliance components.

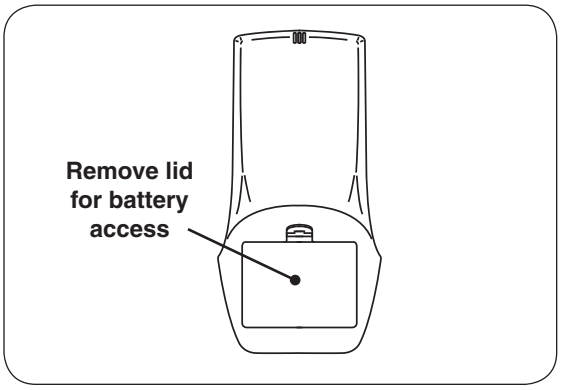


Fig. 53-1 Transmitter battery replacement

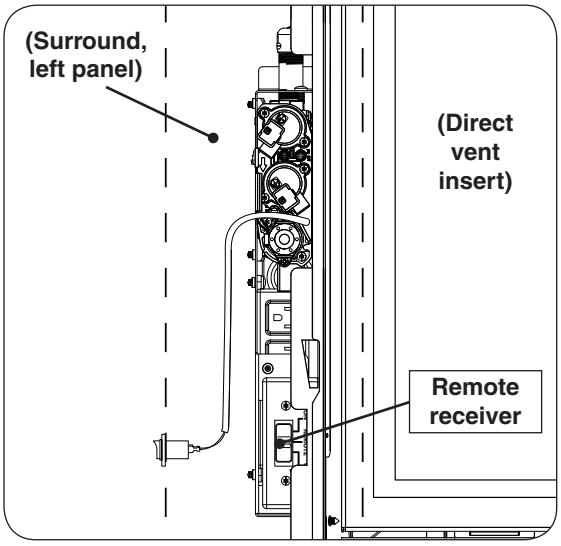


Fig. 53-2 Receiver location (left side, control box)

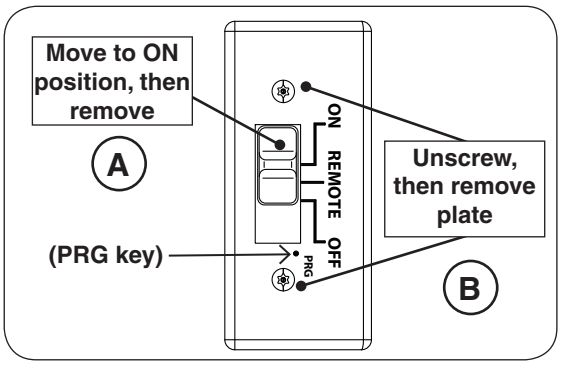


Fig. 53-3 Remove switch and plate for battery access

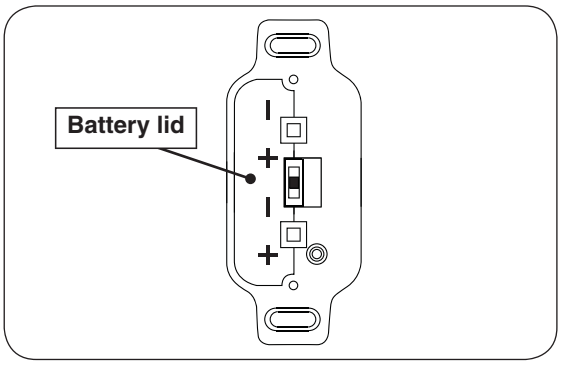


Fig. 53-4 Receiver battery replacement

LIGHT BULB REPLACEMENT

Reference the ANNUAL CLEAN/INSPECTION section for details on accessing the light assembly, found on the top of the firebox interior.

Important: Only replace with 120V / 25 watt bulbs. Wear gloves when handling the light bulb.

1. Remove the lintel found at the top front of the unit. Use a $^{5}/_{16}$" nut driver to remove the two hex screws found on each side of the lintel. See Fig. 54-1.
2. Using a Phillips screwdriver, unfasten the 4 screws that hold the light assembly in place (see Fig. 54-2). Then remove the glass, housing plate, and gaskets. Set aside the glass and housing plate. Discard the old gaskets.
3. Wearing gloves, reach into the fixture, gently grab the bulb, and pull it straight out.
4. Insert the new 120V / 25 watt bulb into the socket so that both pins slide all the way in (see Fig. 54-3).
5. Place two new gaskets on the plate housing, feed one screw through a pilot hole, and align the assembly up into the light assembly. Partially tighten. See Fig. 54-4.
6. Hand tighten the right screw, then insert the glass in between the two gaskets (see Fig. 54-5).
7. Once the glass, housing plate, and gaskets are properly in place, completely tighten all 4 screws.

CAUTION: Ensure the light assembly is properly in place and fully tightened. **Failure to do so will result in combustion fumes escaping the interior firebox.**

8. Re-install the lintel, and all other components.

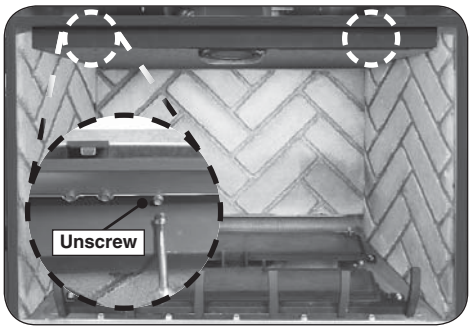


Fig. 54-1 Remove lintel

Fig. 54-2 Remove light assembly

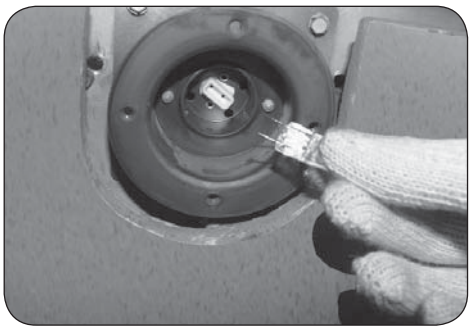


Fig. 54-3 Install new bulb

Fig. 54-4 Install plate and gaskets

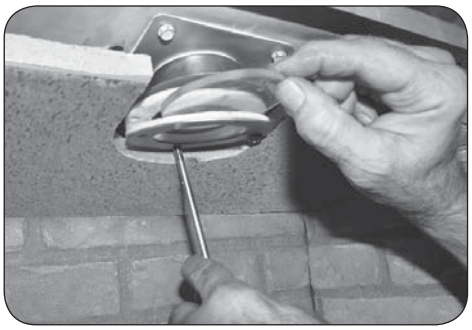


Fig. 54-5 Install glass & fasten all screws

FAN ASSEMBLY CLEANING

The fan assembly MUST be cleaned annually to remove lint, dust, and any debris / build up. It is mounted to the rear of the insert.

Note: Removal of the insert first requires removal of the screen and surround/eyebrow pieces.

1. Remove the insert from the fireplace.
2. Remove the 4 securing hex screws and the rear panel (fan assembly attached) using a $^{5}/_{16}$" nut driver or equivalent. See Fig. 55-1.
3. Slightly lift the panel up, then pull the panel and fan assembly out of the unit (see Fig. 55-2 and 55-3).
4. Vacuum the fan assembly, ensuring to remove all debris / build-up.
5. Re-install the fan assembly by first dropping in the bottom of the panel, then lifting up into place (see Fig. 55-4). Use the screws to re-fasten the panel.
6. Re-install the insert.

CAUTION: Ensure all interior components of the insert (i.e. decorative media, panels) remain in their proper position after re-installing the insert (due to movement). Adjust if needed.

7. Be sure to properly re-install all appliance components.

FUEL CONVERSION KITS

A certified kit is available from the manufacturer to convert your appliance from natural gas to L.P. or vice versa. Contact your dealer for ordering information.

CK-31-NAT(25,30,36)-2 L.P. to Nat. Conversion Kit
CK-31-LP(25,30,36)-2 Nat. to L.P. Conversion Kit

Follow the instructions provided with the kit when converting.

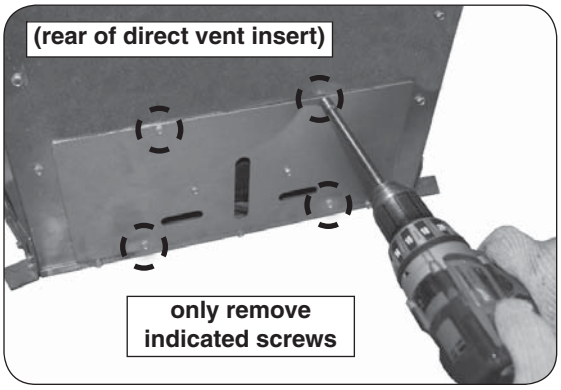


Fig. 55-1 Unfasten rear panel

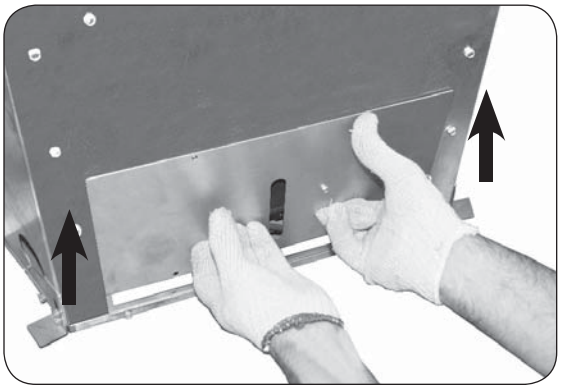


Fig. 55-2 Lift panel for removal

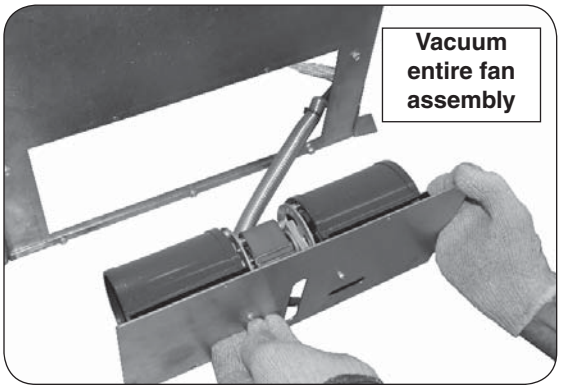


Fig. 55-3 Remove panel / fan assembly & clean

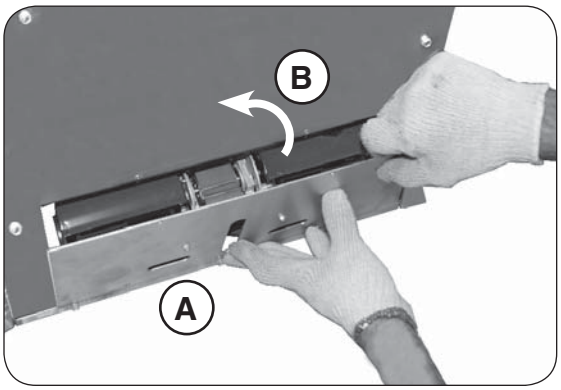


Fig. 55-4 Re-install detail

TROUBLESHOOTING

If you have trouble with your unit, please use this list to identify the problem. By trying one or more of the solutions to the possible cause, you should be able to solve the problem. If this list does not cover your present problem, or if you have other technical difficulties with your unit, please contact your local dealer or visit our web site at *www.rhpeterson.com.*

SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
Soot (black coating) forms on glass panel, logs, or refractory panels	**1.** Improper log or ember placement **2.** Improper air shutter setting **3.** Not enough combustion air	**1.** Reference the LOG SET and GLOWING EMBERS sections for proper placement. **2.** Reference the AIR SHUTTER ADJUSTMENT section to properly adjust. **3.** Check venting system for proper air flow / venting.
Whistling coming from insert	**1.** Normal operating noise **2.** Obstructed orifice opening, or flashback **3.** Flex line over-bent.	**1.** Lower the flame to reduce the operating noise. (Lowering the flame will reduce the heat output of the appliance.) **2.** If noise is excessive, have a qualified professional service technician check the burners and the pilot orifices. **3.** Straighten bends in flex line or replace if whistling still occurs.
A change in flame appearance or burner operation	**1.** Change in gas pressure **2.** Improper log or ember placement	**1.** Contact the gas supplier to check gas pressure. **2.** Reference the LOG SET and GLOWING EMBERS sections for proper placement.
Low flame	**1.** Low gas pressure **2.** The flame height is set to the lowest setting **3.** Blocked burner ports **4.** Faulty valve	**1.** Contact the gas supplier to check gas pressure. **2.** Use remote transmitter to change flame height as desired (see REMOTE OPERATING section). **3.** Contact a qualified professional service technician. **4.** Contact a qualified professional service technician.
Main burner turns on, then goes out	**1.** Gas not reaching appliance **2.** Improper venting system setup **3.** Pilot flame is not engulfing the sensor	**1.** Check the gas supply and gas shut-off valve. **2.** Check venting system to ensure that the *intake* vent pipe coming from the termination connects to the *intake* port on the appliance below, and that the *exhaust* vent pipe coming from the termination connects to the *exhaust* port on the appliance. Contact a qualified professional service technician. **3.** Contact a qualified professional service technician.
Main burner turns on, then flame lifts off of burner until it completely extinguishes **(Cycle repeats every 15 seconds)**	**1.** Long venting system or cold weather	**1.** Establish a proper air flow by operating the pilot (only) for approximately 10 minutes. For models vented 20' or more ensure the air restrictor is installed and the air shutter is adjusted.
Flame is blue and lifting off of burner **-or-** **Flame is yellow and causing sooting**	**1.** Improper air shutter setting	**1.** Reference the AIR SHUTTER ADJUSTMENT section to properly adjust.

TROUBLESHOOTING (cont.)

SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
The main burner does not light and the igniter is sparking	**1.** Gas is not reaching the appliance **2.** Air in gas line **3.** ON/OFF switch on surround is in off position	**1.** Check the gas supply and gas shut-off valve. **2.** Purge gas line of air (contact a qualified professional service technician if required). **3.** Refer to LIGHTING INSTRUCTIONS section regarding proper lighting.
Nothing happens when the appliance is turned on/off	**1.** Gas is not reaching the appliance **2.** Appliance is not receiving power **3.** ON/OFF switch on surround is in off position **4.** The unit is in Thermostat or Smart Thermostat mode	**1.** Check the gas supply and gas shut-off valve. **2.** Check/replace batteries in remote receiver and remote transmitter (see BATTERY REPLACEMENT section). Check that power supply cord is properly plugged in. Check building circuit breaker. Check control module power switch to ensure power is on (Refer to the wiring diagram in the SPECIFICATIONS AND DIMENSIONS section of this manual for module appearance and location). **3.** Refer to LIGHTING INSTRUCTIONS section regarding proper lighting. **4.** Use remote transmitter to change mode as desired (see REMOTE OPERATING section).
No spark at pilot	**1.** See previous causes / actions above. **2.** Pilot bracket is grounding with burner	**1.** See previous causes / actions above. **2.** Bend bracket away from burner to prevent contact.
Light does not work	**1.** Appliance is not receiving power **2.** Bulb has burned out	**1.** Check that power supply cord is properly plugged in. Check building circuit breaker. Check control module power switch to ensure power is on (Refer to the wiring diagram in the SPECIFICATIONS AND DIMENSIONS section of this manual for module appearance and location). **2.** Replace bulb (see LIGHT BULB REPLACEMENT section).
Fan does not work	**1.** Appliance is not receiving power	**1.** Check that power supply cord is properly plugged in. Check building circuit breaker. Check control module power switch to ensure power is on (Refer to the wiring diagram in the SPECIFICATIONS AND DIMENSIONS section of this manual for module appearance and location).
Remote receiver does not respond to remote transmitter	**1.** Receiver batteries are dead **2.** Remote system is not synced **3.** System is in lock-out mode	**1.** Check/replace batteries in remote receiver (see BATTERY REPLACEMENT section). **2.** See SYNCHRONIZE REMOTE SYSTEM section to sync. **3.** Disconnect power supply cord for 5 minutes to reset. Then plug back in, and perform sync (see SYNCHRONIZE REMOTE SYSTEM section).

PETERSON REALFYRE DIRECT-VENT GAS APPLIANCE INSERT
LIMITED WARRANTY

Robert H. Peterson Co. (“RHP”) warrants your Realfyre direct-vent gas insert (“insert”) to be free from defects in materials and workmanship.

The insert body and firebox are **WARRANTED as long as you own them (lifetime).**

Peterson burner assemblies are **WARRANTED for TEN (10) YEARS.**

Peterson ceramic glass panel is **WARRANTED for FIVE (5) YEARS (thermal breakage only).**

Peterson gas logs, glass, gems, and nuggets are **WARRANTED for FIVE (5) YEARS.**

Peterson electrical and gas components, igniters, remote controls and all other components are covered by a **ONE (1) YEAR Limited Warranty (excluding batteries, light bulbs and venting components supplied by others).**

A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE IS REQUIRED

This warranty applies to the original purchaser for products which are installed in the United States or Canada and which are operated and maintained as intended for single family residential usage. This warranty is valid only with proof of purchase, shall commence on the date of purchase, and shall terminate (both as to original and any replacement products) on the anniversary date of the original purchase of the product stated on the above schedules.

This warranty covers defects in material and workmanship. This warranty **does not** cover parts which become defective as a result of negligence, misuse, use not in compliance with the Owner’s Manual/Installation Instructions, accidental damage, improper handling, improper storage, improper installation, lack of required routine maintenance (as specified in the Owner’s Manual/Installation Instructions), electrical damage, local gas impurities or failure to protect against combustibles. Product must be installed (and gas must be connected) as specified in the Owner’s Manual/Installation Instructions by a **qualified professional installer**. Modifications to products which are not specifically authorized will void this warranty. Accessories, parts, valves, remotes, etc. when used must be Peterson products or this warranty is void. Warrantied items will be repaired or replaced at Peterson’s sole discretion. This warranty **does not** apply to rust, corrosion, oxidation, or discoloration unless the affected part becomes inoperable.

This warranty **does not** cover labor or labor related charges, except as provided by separate specific written programs from the Peterson Co. All repair work must be performed by a qualified professional service person and requires prior approval of Peterson.

Peterson may require the defective product or part to be returned to the factory to determine the cause of failure. Peterson will pay freight charges if the product or part is determined to be defective. This warranty does not cover breakage in shipment from our (Independent) distributor to its customer if the damage is determined to have occurred during that shipment.

This warranty specifically excludes liability for **indirect**, **incidental**, or consequential damages. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specified legal rights, and you may have other rights that vary from state to state or province.

For additional information regarding this warranty, or to place a warranty claim, contact the R. H. Peterson dealer where the product was purchased.

TO REGISTER YOUR PRODUCT ONLINE GO TO: WWW.RHPETERSON.COM, AND CLICK ON PRODUCT REGISTRATION. THANK YOU FOR YOUR PURCHASE.

Quality Check				**Date:**_____	
Burner Orifices	**Nat.**	**L.P.**	**Leak Test:** _____	**Model#:**	_____
Front:	____	____	**Burn Test:** _____	**Serial#:**	_____
Rear:	____	____	**Gas Type:** Nat. / L.P.	**Air Shutter:**	_____
				Inspector:	_____